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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1901

(VOL. XVIII.—THIRD SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY SUPPLEMENTS, AND THREE APPENDICES.

Published by the Authority of the Meteorological Council.

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1902.

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ERRATA.

MONTHLY SUMMARIES.

January, p. iv.	Hillington.—Rainfall—18 days; total amount, 0·87 in.; difference from average, — 1·17 ins. Hereford.—Temperature—Extreme maximum for month, 53° on 21st and 27th. Swarraton.—Rainfall—15 days; total amount, 1·84 ins.; difference from average, — 1·24 ins. Edenfel.—Rainfall—3·54 ins.; difference from average, + 0·11 in.
February, p. viii. ...	Fulbeck.—Rainfall—17 days; total amount, 1·39 ins.; difference from average, — 0·18 in. Cheadle.—Rainfall—15 days; total amount, 1·27 ins.; difference from average, — 1·10 ins. Cirencester.—Rainfall—12 days; total amount, 1·09 ins.; difference from average, — 1·30 ins. Llandudno.—Rainfall—Total amount, 1·37 ins.; difference from average, — 0·75 in.
March, p. xii.	Shaftesbury.—Temperature—Extreme maximum, 55° on 12th. Rainfall—Total amount, 3·32 ins.; difference from average, + 1·20 ins.
May, p. xx.	Alnwick Castle.—Rainfall—Total amount, 3·49 ins.; difference from average, + 1·43 ins.
July, p. xxviii.	Douglas.—Rainfall—9 days; total amount, 1·28 ins.; difference from average, — 1·69 ins. Edenfel.—Rainfall—14 days; total amount, 1·65 ins.; difference from average, — 1·69 ins.
August, p. xxxii. ...	Durham.—Rainfall—10 days; total amount, 2·23 ins.; difference from average, — 0·56 in. Cambridge.—Temperature—Extreme minimum, 45° on 28th. Swarraton.—Rainfall—12 days; total amount, 2·67 ins.; difference from average, — 0·14 in. Edenfel.—Rainfall—20 days; total amount, 4·78 ins.; difference from average, + 0·89 in.
October, p. xl.	Fulbeck.—Rainfall—13 days; total amount, 1·68 ins.; difference from average, — 0·80 in.

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PREFACE.

In the Weekly Weather Report for 1901 the general arrangement of the weekly Remarks and Tabular matter is unaltered. These will be found on the first and second pages of each Report, with additional returns of Bright Sunshine on the sixth page. The Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

Monthly Summaries of the observations made at the stations included in the Daily and Weekly Weather Reports again appear as a Supplement.

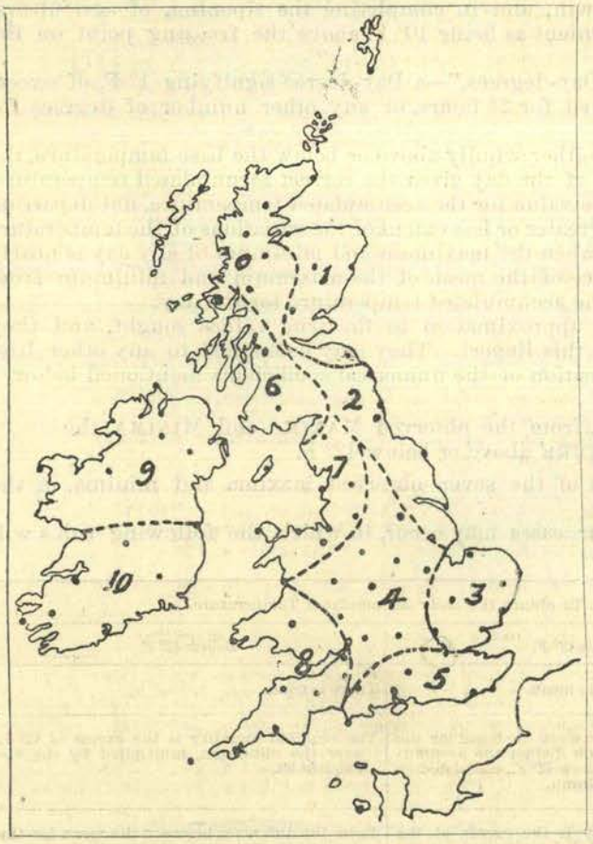
Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

Appendix III. gives the Mean Values of the Temperature, Rainfall and Duration of Bright Sunshine for 30, 35 and 20 years respectively, in continuation of those printed in the Preface to the Weekly Weather Report for 1895.

The general arrangement of the Report is as follows:—

LIST OF DISTRICTS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information as to Temperature and Rainfall, and in some cases as to Bright Sunshine also, are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong:—



METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick, Lairg, Glencarron, Fort Augustus, Fort William.

1. SCOTLAND, E.—Nairn, Aberdeen, Braemar, Ochtertyre, Leith, Marchmont.

2. ENGLAND, N.E.—Alnwick Castle, Durham, Shields, Scarborough, Spurn Head, Fulbeck.

3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Felixstowe, Rothamsted.

4. MIDLAND COUNTIES.—Bawtry, Loughborough, Colly Weston (Stamford), Cheadle, Birmingham (Edgbaston), Churchstoke, Hereford, Cirencester, Oxford.

5. ENGLAND, S.—London, Swarraton, Dungeness, Hastings, Southampton, Portland Bill, Shaftesbury.

6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Glenlee, Douglas (Isle of Man).

7. ENGLAND, N.W.—Newton Reigny, Stonyhurst, Blackpool, Manchester (Prestwich), Liverpool Observatory (Bidston), Chester (Hawarden Bridge), Llandudno, Holyhead.

8. ENGLAND, S.W.—Llandovery, Pembroke, Bath, Clifton, Arlington Cullompton, Falmouth, Plymouth.

9. IRELAND, N.—Malin Head, Londonderry, Edenfel (Omagh), Blacksod Point, Markree Castle, Armagh, Donaghadee.

10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Roche's Point Valencia, Killarney, Foynes.

There are in addition two stations in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (St. Aubin's), which cannot be conveniently placed in any of the Districts. Records from additional stations which supply Sunshine only are given on the sixth page of each Report.

WEEKLY SUMMARY.

The Summary on the first page of each Report gives for each week and district the absolute *maximum* and *minimum* temperatures observed, the averages of both the daily extremes, the daily average, and its difference from the mean of the corresponding period, as derived from observations of the 30 years 1871-1900, together with the values for "Accumulated" temperature above and below 42° F.

DAILY MEAN TEMPERATURE.

The daily Mean Temperature shown in the Tables is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich, and the self-registering Observatories of the Meteorological Council.

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The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - 48·1

The mean minimum - - - - - - - - - - - - - - 39·3

The difference is - - - - - - - - - - - - - - 8·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean daily temperature of the week.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

Rules for computing, for a Weekly Period, from the observed Maxima and Minima, the Accumulated Temperature above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the co-efficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in Rules 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4 ; for 52° F., 0·33 ; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

Rainfall.

The Summary on the first page of each Report gives for each week and each District the number of rainy days, and the total fall of rain, as well as the progressive values reckoned from the commencement of the year, and the difference between these amounts and the means for the corresponding week in the 35 years 1866–1900.

Bright Sunshine.

The Summary on the first page gives for each week and each District the numbers of hours of sunshine recorded, and the percentage of that time to the whole time during which the sun is above the horizon: also the progressive values reckoned from the commencement of the year, together with the difference between them and the mean for the corresponding period in the 20 years 1881 to 1900.

Table II., which is printed on the second page of each Report, gives the data on which the summaries on the first page are based.

It supplies for each station the weekly values of Temperature, Rainfall, and Bright Sunshine, with the respective differences from the averages.

DAILY CHARTS.

These are three in number for each day, and they show the distribution of pressure and wind over the whole of Europe at 8 a.m. and 6 p.m., and the temperature, weather, and sea disturbance at 8 a.m. each day. The maps are accompanied by a brief account of the distribution of weather for that day, and the changes that have taken place.

In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟶⟶⟶ = a heavy gale ; ⟶⟶ = a gale ; ⟶ = a fresh to strong breeze ; ⟶ = a light to moderate breeze ; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky ; c = detached clouds ; o = overcast ; m = misty (hazy) ; f = foggy ; q = squally ; r = rain ; h = hail ; s = snow ; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland ; at 7 a.m. in Germany, Denmark, Norway, and Sweden ; at 6.51 a.m. in France and Algeria ; at 6 a.m. in Italy and Austria ; at 5.25 a.m. in Greece ; at 4.59 a.m. in Russia ; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands ; 4.36 p.m. in Portugal ; 5.25 p.m. in Greece ; 5.51 p.m. in France ; 6.25 p.m. in Spain ; 6.51 p.m. in Algeria ; 6.59 p.m. in Russia ; 7 p.m. in Germany, Denmark, Norway, and Sweden ; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

SUPPLEMENT AND APPENDICES.

Supplement.—Consists of twelve Summaries of the results of the Observations made at the Stations included in the Daily and Weekly Weather Reports during each of the Calendar months. Each Summary is illustrated by a lithographed plate showing the distribution of Pressure, Air Temperature, and Rainfall during the month, and the Prevalence of Wind from various quarters.

Appendix I.—This contains for each of the eleven Districts and for the Channel Islands :—

1. Summaries for each Quarter and for the Year, of the Temperature and Rainfall records for the whole period of 36 years, 1866–1901.
2. Tables giving for 1901, *for periods of* 4 *weeks and* 5 *weeks*, the progressive numbers of—
   Rain Days.
   Rainfall.
   Accumulated Heat (*i.e.*, Day Degrees above and below 42° F.).
   Bright Sunshine, Duration.
   Bright Sunshine, Percentage.
   in continuation of the values given in Appendix I. for 1900.

Appendix II.—This contains for each of the eleven Districts and for the Channel Islands :—

Tables giving for 1901 the *weekly* and progressive numbers of—
Rain Days.
Rainfall.
Accumulated Heat (*i.e.*, Day Degrees above and below 42° F.).
Bright Sunshine, Duration.
Bright Sunshine, Percentage.
in continuation of the values given in Appendix II. for 1900.

Appendix III.—This contains for certain of the Stations included in the Weekly Weather Report and Monthly Summaries, the monthly and yearly averages of :—

	Period.
Rainfall	35 years, 1866–1900
Rain Days	30 years, 1871–1900
Temperature—Maximum	30 years, 1871–1900
Minimum	30 years, 1871–1900
Mean	30 years, 1871–1900
Bright Sunshine, Duration	20 years, 1881–1900
Bright Sunshine, Percentage	20 years, 1881–1900

Tables showing for each degree of Latitude from 49° *N. to* 58° *N., and for each Weekly and Four-Weekly or Five-Weekly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to The Weekly Weather Report for* 1884, *while similar information for the Calendar Months is given in the Preface to The Monthly Weather Report for* 1884.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES, IN ADDITION TO THOSE ALREADY PUBLISHED ON THE SIXTH PAGE OF SOME OF THE WEEKLY REPORTS.

Date of Report.	Names of Stations.	Temperature (in Degrees Fahrenheit).								Rainfall.			Bright Sunshine.			
		Highest Observed.	Lowest Observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Diff. of Daily Average from the Mean for the week.	Accumulated Heat for the week (in Day Degrees). Above 42° F.	Below 42° F.	No. of Rainy Days.	Rainfall in the Week.	Diff. from the Mean for the Week.	No. of Hours recorded.	Diff. from the Mean for the Week.	Per-centage of possible duration.	Diff. from the Mean for the Week.
1901.																
Week ending Oct. 5 ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	29·7	..	37	..
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	27·2	..	34	..
" " " " ..	Newquay ..	..	..	..	..	..	..	..	..	..	..	..	22·0	− 8·2	28	− 10
" " " 12 ..	Scarborough ..	61	34	55·4	38·0	46·4	− 3·2	48	11	..	..	..	..	..	..	..
" " " 19 ..	Lowestoft ..	..	..	..	..	..	..	..	..	..	..	..	24·2	..	33	..
" " " " ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	31·4	..	43	..
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	27·1	..	37	..
" " " 26 ..	Newquay ..	..	..	..	..	..	..	..	..	..	..	..	29·8	+ 5·4	42	+ 9
" " Nov. 2 ..	Killarney ..	64	39	57·0	45·6	51·1	+ 3·1	64	0	4	0·74	− 0·63	..	..	..	..
" " " " ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	19·9	..	30	..
" " " " ..	Newquay ..	..	..	..	..	..	..	..	..	..	..	..	7·1	−14·7	10	− 22
" " " 9 ..	Southport ..	..	..	..	..	..	..	..	..	..	..	..	12·3	..	12	..
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	23·2	..	37	..
" " " 16 ..	Ochtertyre ..	54	22	45·4	30·6	38·0	− 3·3	10	42	2	0·46	− 0·55	..	..	..	..
" " " " ..	Rhyl	..	..	..	..	..	..	..	..	..	.	..	15·8	..	26	..
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	10·4	..	17	..
" " " 30 ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	13·4	..	24	..
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	13·1	..	24	..
" " Dec. 7 ..	Worksop ..	..	..	..	..	..	..	..	..	..	..	..	5·4	− 2·9	10	− 5
" " " " ..	Colwyn Bay ..	..	..	..	..	..	..	..	..	..	..	..	1·2	..	2	..
" " " 14 ..	Sheffield ..	..	..	..	..	..	..	..	..	..	..	..	7·1	..	14	..
" " " " ..	Broadstairs ..	..	..	..	..	..	..	..	..	..	..	..	10·1	..	18	..
" " " " ..	Bognor ..	..	..	..	..	..	..	..	..	..	..	..	12·9	..	23	..
" " " " ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	8·5	..	16	..
" " " " ..	Newquay ..	..	..	..	..	..	..	..	..	..	..	..	6·3	− 5·9	11	− 11
" " " 21 ..	York	..	..	..	..	..	..	..	..	..	..	..	8·7	+ 3·0	17	+ 6
" " " " ..	Rhyl	..	..	..	..	..	..	..	..	..	..	..	18·7	..	37	..
" " " " ..	Strathpeffer ..	..	..	..	..	..	..	..	..	..	..	..	0·8	− 6·0	2	− 13
" " " 28 ..	Durham ..	40	23	36·4	30·1	33·4	− 3·8	0	60	3	0·36	− 0·19	12·9	+ 3·2	26	+ 6
" " " " ..	Broadstairs ..	..	..	..	..	..	..	..	..	..	..	..	19·2	..	36	..
" " " " ..	Torquay ..	..	..	..	..	..	..	..	.	..	..	..	17·2	..	31	..

THE following is a LIST of the OBSERVERS to whom the Council are indebted for observations contributed to the WEEKLY WEATHER REPORT, 1901, together with the NAMES and ALTITUDES of their STATIONS :—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Aberdovey - -	?	John Edwards - - - - -	Sunshine only.
Alnwick Castle -	210	Robert Kyle, for the Duke of Northumberland, K.G.	
Arlington (North Devon).	613	Lady Chichester.	
Armagh - -	196	J. L. E. Dreyer, Ph. D., and Staff of Observatory.	
Bawtry (Hesley Hall)	65	B. I. Whitaker, J.P., F. R. Met. Soc.	
Blackpool - - ℳ	62	A. J. Anderson, M.A., M.B., and F. J. H. Coutts, M.D., for the Corporation.	
Bognor - -	14	H. C. L. Morris, M.D., for the Corporation.	Sunshine only.
Bournemouth -	?	C. Dales, for the Corporation -	Sunshine only.
Braemar - - $	1,111	J. Aitken, J.P.	
Brighton - -	65	A. Newsholme, M.D., for the Corporation.	Sunshine only.
Broadstairs - -	?	W. H. White, for the District Council.	Sunshine only.
Cahir - - -	188	R. W. Smith, Junr. - - -	Sunshine only
Cambridge - -	83	Miss A. Walker, for Sir Robert Ball, F.R.S.	
Cheadle - - ℳ	646	J. C. Philips.	
Chester (Hawarden Bridge).	?	F. B. Summers.	
Churchstoke - ℳ	538	P. Wright, F.C.S., F. R. Met. Soc.	
Cirencester - -	446	Prof. G. T. Locke, M.A., for the R. A. College.	
Clifton - - -	230	D. Rintoul, M.A.	
Colly Weston -	280	Miss Amy Tasker.	
Colwyn Bay -	?	R. E. Lord, M.D., B.Sc. - -	Sunshine only.
Cullompton - - ℳ	202	T. Turner, J.P., F. R. Met. Soc.	
Deerness - -	160	M. Spence - - - - - -	Sunshine only.
Douglas, Isle of Man.	137	A. W. Moore, M.A., J.P.	
Dublin (City) -	47	Sir John W. Moore, M.D., F. R. Met. Soc.	
,, (Phœnix Park)	155	Major Haynes, R.E. - - -	Sunshine only.
Durham - -	336	Prof. R. A. Sampson, M.A.	
Eastbourne - -	39	R. Sheward, F. R. Met. Soc., for the Corporation.	Sunshine only.
Edenfel (Omagh)-	300	Col. Buchanan, C.B., F. R. Met. Soc.	
Edinburgh - -	?	Regius Keeper, Botanic Gardens	Sunshine only.
Edgbaston (Birmingham).	534	Alf. Cresswell, for the Midland Institute.	
Falmouth - -	167	Staff of Observatory.	
Felixstowe - -	76	Rev. J. G. Munday, M.A.	
Fort Augustus - $	68	Rev. C. von Dieckhoff.	
Fort William - $	31	A. Rankin, for Directors of Observatory.	
Foynes - - -	108	W. H. Ward, for Lord Monteagle, K.P.	
Fulbeck - -	185	Rev. Vere F. Willson, M.A.	
Geldeston - -	37	E. T. Dowson, F. R. Met. Soc.	
Glasgow - -	180	Staff of Observatory.	
Glencarron - - $	489	D. D. Munro, for Lord Maclaren.	
Glenlee - - $	203	W. Melville, for Prince Smith.	
Guernsey - -	180	F. E. Carey, M.D., F. R. Met. Soc.	Sunshine only.
Hastings (St. Leonards).	178	H. Colborne, M.R.C.S., for the Corporation.	
Hereford ℳ (Belmont).	291	Rev. T. B. Harrington.	
Hillington - - ℳ	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.	
Hollesley Bay -	38	Prof. C. G. Freer Thonger, F.C.S.	Sunshine only.
Hoylake - -	?	L. G. Dashper, for Town Council	Sunshine only.
Kew Observatory	18	The Staff - - - - - -	Sunshine only.
Kilkenny Castle -	212	H. Carlton, for the Marquis of Ormonde, K.P.	
Killarney - -	174	E. W. Griffin, M.D.	
Lairg - - - $	335	Rev. D. Macrae.	
Laudale - -	14	A. Fletcher, for T. H. G. Newton, M.A., F. R. Met. Soc.	
Littlestone-on-Sea	?	H. T. Tubbs - - - - -	Sunshine only.
Llandovery - -	217	J. Watkins, F. R. Met. Soc.	
Llandudno - - ℳ	72	W. Little, for Town Council.	
Londonderry -	67	*The late* J. Conroy, F. R. Met. Soc	
Lowestoft - -	84	J. E. O'Connor, M.B., and C. W. Edwards, for the Corporation.	Sunshine only.
Manchester (Oldham Rd.).	190	J. Niven, M.A., M.B., for the Corporation.	Sunshine only.
Marchmont - - $	498	J. A. Wood, for Sir H. P. Campbell, Bt.	
Margate - -	83	J. Stokes, J.P., F. R. Met. Soc. -	Sunshine only.
Markree Castle -	122	F. W. Henkel, B.A., F.R.A.S., for Col. Cooper, F.R.A.S.	
Morpeth - -	324	W. H. Hogg & J. H. J. Farquhar, for County Council.	Sunshine only.
Newcastle-on-Tyne.	152	N. H. Martin, F.C.S. - - -	Sunshine only.
Newquay - -	250 ?	A. Hardwick, M.D., for Town Council.	Sunshine only.
Ochtertyre - $	329	G. Croucher, for Sir P. K. Murray, Bt.	
Oswaldkirk - -	510	R. Thompson - - - -	Sunshine only.
Plymouth - -	116	H. Victor Prigg, A.M.I.C.E.	
Prestwich - -	320	T. R. H. Clunn, M.D., F. R. Met. Soc.	
Rothamsted- -	368	*The late* Sir J. H. Gilbert, Ph. D., F.R.S., and T. Wilson, F. R. Met. Soc.	
Rhyl - - -	?	A. A. Goodall, for District Council	Sunshine only.
Scarborough - ℳ	62	W. W. Larkin, for the Corporation.	
Shaftesbury- - ℳ	722	Miss L. H. Harris.	
Sheffield - -	429	E. Howarth, F.R.A.S. - - -	Sunshine only.
Southampton -	78	J. T. Cook, R.E., and A. Vaughan, R.E., for the Ordnance Survey.	
Southport - -	21	J. Baxendell, F. R. Met. Soc. -	Sunshine only.
Stonyhurst - -	375	Staff of Observatory.	
Strathpeffer Spa -	253	J. Tregelles Fox, M.D. - -	Sunshine only.
Swarraton - - ℳ	310	Rev. W. L. W. Eyre, M.A., F. R. Met. Soc.	
Tenby - - -	79	R. J. Truscott, for the Corporation.	Sunshine only.
Thurcaston - -	253	Rev. T. A. Preston, M.A., F. R. Met. Soc.	Sunshine only.
Torquay - -	286	F. March, for the Corporation -	Sunshine only.
Ventnor Hospital	80	C. Lewis, M.B., and Miss M. Gibson.	Sunshine only.
Watergate - -	236	W. M. Christy - - - -	Sunshine only.
Westbourne- -	30	Rev. L. B. Birkett, M.A. - -	Sunshine only.
Worksop - -	56	H. Mellish, J.P., F. R. Met. Soc. -	Sunshine only.
Worthing - -	38	C. Kelly, M.D., for the Corporation.	Sunshine only.
York - -	56	H. Richardson, M.A. - - -	Sunshine only.

Stations marked "ℳ" report through the Royal Meteorological Society ; those marked "$" through the Scottish Meteorological Society.

NOTE.—The heights given are, as far as possible, those of the ground on which the rain-gauge stands. In some cases the Sunshine Recorders are placed at a considerable elevation above this.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & CO., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & CO., 104, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 1.] *Third Series* WEEK ENDING SATURDAY, JANUARY 5TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 2.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	25	43·9	34·9	39·6	2 above	5	− 1	28	− 5	5	− 1	28	− 5
	1. SCOTLAND, EAST	47	25	42·4	33·2	38·0	1 above	1	− 5	32	− 7	1	− 5	32	− 7
	2. ENGLAND, N.E.	47	27	42.2	34·0	38·3	0 (average)	1	− 7	30	− 5	1	− 7	30	− 5
	3. ENGLAND, EAST	51	22	42·0	33·0	37·7	0 (average)	0	− 8	30	− 8	0	− 8	30	− 8
	4. MIDLAND COUNTIES	51	25	40·7	31·9	36·5	1 below	0	−10	39	0	0	−10	39	0
	5. ENGLAND, SOUTH	53	23	43·7	34·2	39·1	0 (average)	5	− 7	30	+ 1	5	− 7	30	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	26	45·2	37·4	41·5	2 above	9	− 2	20	− 8	9	− 2	20	− 8
	7. ENGLAND, N.W.	50	29	43·9	36·8	40·5	1 above	5	− 6	21	− 6	5	− 6	21	− 6
	8. ENGLAND, S.W.	53	26	45·1	35·4	40·5	0 (average)	9	− 7	27	+ 6	9	− 7	27	+ 6
	9. IRELAND, NORTH	50	30	45·7	38·3	42·3	2 above	18	+ 4	10	−14	18	+ 4	10	−14
	10. IRELAND, SOUTH	52	30	47·8	38·5	43·4	1 above	25	+ 4	10	− 9	25	+ 4	10	− 9
	—CHANNEL ISLANDS—	54	34	49·7	42·4	46·2	2 above	43	+18	0	− 8	43	+18	0	− 8

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 2.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	8	5 less	4	− 1	0·8	− 0·5	5	0	10	0	5	0	10	0
	1. SCOTLAND, EAST	3	5	2 ,,	3	− 1	0·5	− 0·2	5	− 2	11	− 3	5	− 2	11	− 3
	2. ENGLAND, N.E.	2	10	5 more	3	− 2	1·0	+ 0·5	1	− 8	2	−16	1	− 8	2	−16
	3. ENGLAND, EAST	3	11	7 ,,	3	− 1	1·1	+ 0·7	11	+ 1	20	+ 2	11	+ 1	20	+ 2
	4. MIDLAND COUNTIES	4	18	12 ,,	4	0	1·8	+ 1·2	7	− 2	14	− 3	7	− 2	14	− 3
	5. ENGLAND, SOUTH	3	10	4 ,,	3	− 1	1·0	+ 0·4	16	+ 5	29	+ 9	16	+ 5	29	+ 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	7	7 less	4	− 1	0·7	− 0·7	8	0	15	0	8	0	15	0
	7. ENGLAND, N.W.	3	4	3 ,,	3	− 1	0·4	− 0·3	11	+ 3	21	+ 6	11	+ 3	21	+ 6
	8. ENGLAND, S.W.	3	13	4 more	3	− 1	1·3	+ 0·4	18	+ 6	32	+12	18	+ 6	32	+12
	9. IRELAND, NORTH	4	3	5 less	4	− 1	0·3	− 0·5	20	+11	39	+21	20	+11	39	+21
	10. IRELAND, SOUTH	3	3	6 ,,	3	− 2	0·3	− 0·6	18	+ 6	35	+13	18	+ 6	35	+13
	— CHANNEL ISLANDS—	3	6	2 ,,	3	− 2	0·6	− 0·2	23	+10	40	+18	23	+10	40	+18

NOTE.—The means employed for comparison with the current values on the first and second pages of the WEEKLY WEATHER REPORT have been materially improved by the addition of observations made during the 5 years ending with 1900.

General Remarks.

Weather was very unsettled and rainy at the commencement of the week, especially in the south and east; later on the conditions improved considerably and finally became fair and dry generally, although fog was experienced in some parts of England.

Temperature was rather high during the first few days, but subsequently fell briskly and became somewhat low. The average for the week did not, therefore, differ much from the mean, but was slightly above it in Scotland and Ireland, as well as in the Channel Islands. The highest of the maxima were mostly recorded either on Sunday or Monday, and ranged from 54° in Scotland N. and the Channel Islands and 53° in England S. and S.W. to 47° in Scotland E. and England N.E. The lowest of the minima, which were registered on December 30th in the north, and on January 5th elsewhere, ranged from 22° in England E. and 23° in England S. to 30° over Ireland, and to 34° in the Channel Islands.

Rainfall was less than the mean in Ireland, Scotland, England N.W., and the Channel Islands, but more in all other districts. In the Midland Counties, eastern and north-eastern England, and in some parts of England S.W. the excess was very large, and was due almost entirely to a heavy fall which occurred on Sunday, December 30th. The largest amounts experienced on this day at any of our stations were 2·95 ins. at Bath, 2·15 ins. at Clifton, 1·95 ins. at Shaftesbury, 1·24 ins. at Falmouth, 2·20 ins. at Cirencester, 2·05 ins. at Hereford, 2·04 ins. at Birmingham, 2·38 ins. at Colly Weston, 2·05 ins. at Fulbeck, and 1·54 ins. at Hillington.

Bright Sunshine exceeded the mean in most parts of the Kingdom, but was deficient over the northern and north-eastern parts of Great Britain. The percentage of the possible duration ranged from 40 in the Channel Islands and 39 in Ireland N. to 11 in Scotland E., to 10 in Scotland N., and to 2 in England N.E.

Barometer and Wind.—At the commencement of the week a rather shallow depression was moving north-eastwards over Ireland and England, while a smaller system which appeared in the extreme south-west developed much greater intensity during its passage eastwards up the English Channel, and caused strong South-Westerly to North-Westerly winds and gales in many parts of England and an Easterly gale in the east of Scotland. By Tuesday the system had moved south-eastward and dispersed, while another depression had appeared over the north of Scotland and some shallow secondaries over the south of England. These systems soon passed away to the north-eastwards, and towards the end of the week the distribution of pressure had become anticyclonic, with Easterly winds in the south and Southerly breezes in the west and north.

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II.—DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head	50	35	44·6	37·7	41·3	+ 2·2	7	18	4	1·09	+ 0·17	*	*	*	*
	Stornoway	48	30	45·6	36·0	41·0	+ 2·2	10	25	5	0·37	− 0·80	2·7	− 3·5	6	− 7
	Wick	48	29	43·4	34·9	39·3	+ 1·6	4	27	4	0·40	− 0·18	*	*	*	*
	Lairg ℒ	54	25	43·4	30·0	37·0	+ 2·3	4	45	4	0·52	− 0·32	*	*	*	*
	Glencarron ℒ	46	31	42·3	33·7	38·2	+ 1·3	1	31	5	1·28	− 0·98	*	*	*	*
	Fort Augustus ℒ	47	29	43·8	35·5	39·8	+ 1·0	5	25	3	0·75	− 0·36	3·5	+ 0·2	7	+ 1
	Fort William ℒ	47	32	44·4	36·8	40·8	+ 1·9	7	21	4	0·96	1·26	1·1	− 3·4	2	− 7
1. SCOTLAND, E.	Nairn	46	29	43·1	32·1	37·8	+ 0·2	3	37	3	0·60	+ 0·13	*	*	*	*
	Aberdeen	43	31	41·9	34·1	38·2	+ 0·7	0	27	2	0·52	− 0·08	4·9	− 5·5	11	−10
	Braemar ℒ	42	25	39·6	31·4	35·7	+ 1·3	0	44	3	0·42	− 0·28	*	*	*	*
	Ochtertyre ℒ	46	27	42·6	33·7	38·3	+ 1·6	2	31	4	0·77	− 0·23	*	*	*	*
	Leith	47	31	44·9	35·9	40·6	+ 1·7	8	25	3	0·28	− 0·14	*	*	*	*
	Marchmont ℒ	45	28	42·1	32·1	37·3	+ 1·1	0	36	3	0·26	− 0·39	7·0	− 1·4	15	− 1
2. ENGLAND, N.E.	Alnwick Castle	47	29	44·4	33·5	39·1	+ 1·3	7	32	2	0·25	− 0·33	*	*	*	*
	Durham	46	29	41·7	31·8	37·0	0·0	0	35	2	0·64	+ 0·14	0·7	− 9·4	1	−18
	Shields	47	30	42·6	34·6	38·8	+ 0·2	2	28	2	0·55	+ 0·11	*	*	*	*
	Scarborough ℳ	46	34	43·6	36·6	40·2	+ 1·8	4	21	2	?	?	3·0	?	6	?
	Spurn Head	45	32	42·7	35·3	39·2	+ 0·7	2	25	1	1·15	+ 0·76	*	*	*	*
	Fulbeck (Lincolnshire)	46	27	38·1	32·4	35·4	− 1·4	0	46	5	2·15	+ 1·74	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	45	26	39·9	31·0	35·6	− 1·2	0	45	5	1·69	+ 1·20	7·5	− 2·3	14	− 4
	Yarmouth	46	33	41·7	34·9	38·4	+ 0·8	0	25	2	1·13	+ 0·64	*	*	*	*
	Geldeston	48	25	43·8	32·0	38·1	+ 0·1	5	38	3	1·16	+ 0·74	11·1	− 0·4	21	0
	Cambridge	49	22	42·2	31·7	37·2	− 0·2	1	38	2	0·88	+ 0·51	4·8	− 5·4	9	− 9
	Felixstowe	49	33	43·0	36·5	39·9	+ 1·7	3	21	2	0·97	?	17·5†	?†	32†	?†
	Rothamsted	51	23	41·2	32·0	36·8	− 0·6	0	36	5	0·97	+ 0·42	8·8	− 1·2	16	− 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	29	39·0	32·6	35·9	− 1·5	0	43	5	1·08	+ 0·64	*	*	*	*
	Loughborough	46	28	40·1	31·4	35·9	− 1·8	0	43	4	1·91	+ 1·43	*	*	*	*
	Colly Weston (Stamford)	45	25	38·7	32·0	35·5	− 2·2	0	46	5	2·47	?	*	*	*	*
	Cheadle ℳ	45	26	40·0	32·4	36·4	− 0·3	0	39	3	1·22	+ 0·57	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	46	26	41·0	32·8	37·1	+ 0·2	0	34	3	2·15	+ 1·67	5·8	?	11	?
	Churchstoke ℳ	47	27	42·1	32·0	37·3	− 0·4	0	37	3	1·02	+ 0·35	13·8	+ 4·0	26	+ 8
	Hereford (Belmont) ℳ	48	28	41·6	32·1	37·0	− 1·4	0	35	6	2·21	+ 1·66	*	*	*	*
	Cirencester	50	26	42·9	28·6	36·0	− 1·6	3	49	3	2·33	+ 1·69	3·3	− 6·7	6	−12
	Oxford	51	28	41·3	33·3	37·5	− 0·9	0	32	4	1·38	+ 0·92	9·7	− 0·3	18	− 1
5. ENGLAND, S.	London	52	25	43·1	33·7	38·6	− 0·4	3	31	3	0·55	+ 0·09	1·5†	− 3·7†	3†	− 7†
	Swarraton (Alresford) ℳ	51	23	41·0	29·7	35·6	− 2·1	0	45	3	1·16	+ 0·44	*	*	*	*
	Dungeness	52	33	44·1	36·7	40·5	+ 0·6	6	21	3	0·58	+ 0·03	16·0	?	29	?
	Hastings (St. Leonards)	52	30	44·4	35·2	40·0	+ 0·1	7	27	3	0·68	+ 0·03	18·9	+ 4·4	34	+ 9
	Southampton	53	27	43·9	33·3	38·8	− 1·1	5	33	3	1·05	+ 0·35	14·6	+ 3·1	27	+ 7
	Portland Bill	52	34	47·1	38·1	42·8	+ 1·2	22	11	3	0·86	?	*	*	*	*
	Shaftesbury ℳ	50	29	42·3	32·5	37·6	+ 0·5	1	35	2	1·97	+ 1·27	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	33	45·3	37·3	41·5	+ 1·4	9	20	4	1·29	− 0·66	*	*	*	*
	Glasgow	45	34	43·9	38·0	41·1	+ 2·7	5	16	3	0·35	− 0·55	3·1	− 1·7	6	− 3
	Glenlee ℒ	47	26	44·3	35·0	39·8	+ 2·3	6	27	6	0·59	− 0·96	*	*	*	*
	Douglas (Isle of Man)	49	36	47·4	39·2	43·5	+ 2·5	22	8	3	0·52	− 0·59	12·4	+ 2·2	24	+ 4
7. ENGLAND, N.W.	Newton Reigny	45	29	41·6	33·9	38·0	+ 2·2	0	28	3	0·15	?	7·7	?	15	?
	Stonyhurst	47	31	43·5	35·3	39·6	+ 1·8	4	26	4	0·48	− 0·53	5·5	− 1·5	11	− 2
	Blackpool ℳ	47	30	44·0	37·1	40·7	+ 2·1	6	20	4	0·48	− 0·20	5·0	− 2·2	10	− 3
	Manchester (Prestwich)	46	30	42·2	33·3	37·9	− 0·1	1	32	4	0·72	− 0·06	0·7	?	1	?
	Liverpool Obsy. (Bidston)	47	30	42·9	37·3	40·2	+ 0·7	3	18	3	0·44	− 0·11	6·9	?	13	?
	Llandudno ℳ	50	33	46·8	39·4	43·3	+ 1·8	20	7	3	0·28	− 0·39	15·7	+ 6·4	30	+12
	Holyhead	49	38	46·3	41·0	43·8	+ 1·4	17	3	2	0·36	− 0·44	*	*	*	*
8. ENGLAND, S.W.	Llandovery	47	31	42·6	33·9	38·4	+ 0·3	2	30	4	1·08	− 0·11	*	*	*	*
	Pembroke	49	39	47·3	42·4	45·0	+ 1·9	21	0	3	0·85	− 0·04	15·9	+ 4·8	29	+ 9
	Clifton	50	28	43·9	33·6	39·0	− 0·4	5	32	3	2·22	+ 1·47	*	*	*	*
	Bath	53	27	43·0	30·9	37·2	− 3·4	3	41	2	2·99	?	9·0	?	16	?
	Arlington (N. Devon)	48	26	43·9	33·3	38·8	− 1·3	5	33	1	0·16	− 0·96	*	*	*	*
	Cullompton ℳ	52	27	44·6	31·5	38·3	− 1·1	7	40	3	1·07	+ 0·27	14·9	+ 5·2	27	+10
	Falmouth	52	37	48·0	40·2	44·3	+ 0·5	24	5	3	1·42	+ 0·22	22·5	+ 9·7	40	+18
	Plymouth	52	31	47·4	37·3	42·6	+ 0.3	24	13	2	0·93	+ 0·03	19·1	+ 7·4	34	+14
9. IRELAND, N.	Malin Head	47	36	45·6	39·1	42·5	+ 0·9	16	8	4	0·32	?	*	*	*	*
	Londonderry	48	35	45·7	37·9	42·0	+ 2·1	10	18	5	0·38	− 0·50	*	*	*	*
	Edenfel (Omagh)	48	30	43·9	35·9	40·1	+ 2·4	5	24	4	0·36	− 0·45	*	*	*	*
	Blacksod Point	50	35	48·6	41·0	45·0	+ 2·2	25	3	5	0·58	?	*	*	*	*
	Markree Castle	47	31	45·7	36·4	42.2	+ 3·0	25	16	3	0·26	− 0·64	20·9	+13·1	41	+24
	Armagh	47	36	45·1	38·5	41·9	+ 3·2	9	15	1	0·16	− 0·48	18·8	+ 9·1	37	+19
	Donaghadee	48	35	45·4	39·3	42·5	+ 1·8	15	8	3	0·22	− 0·43	*	*	*	*
10. IRELAND, S.	Dublin	49	37	46·7	39·0	43·1	+ 1·6	20	8	2	0·06	− 0·45	19·4	+ 6·8	37	+13
	Parsonstown	49	34	46.3	35·3	41·0	+ 1·3	12	28	3	0·18	− 0·50	20·7	+ 9·5	40	+19
	Kilkenny	48	30	46·6	34·1	40·6	− 0·1	13	33	2	0·28	− 0·47	*	*	*	*
	Roche's Point	50	36	49·0	42·1	45·7	+ 2·1	26	0	1	0·15	− 1·04	*	*	*	*
	Valencia	51	37	50·1	42·0	46·2	+ 1·3	29	0	5	0·74	− 0·66	14·4	+ 3·2	27	+ 6
	Killarney												*	*	*	*
	Foynes	52	35	48·2	38·6	43·6	+ 2·1	25	10	3	0·25	− 0·65	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	50·7	44·4	47·7	+ 1·4	40	0	2	0·59	− 0·18	28·4	?	51	?
	Jersey	54	34	48·6	40·4	44·7	+ 1·8	26	4	4	0·56	− 0·22	24·6	+ 9·8	43	+18

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℒ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

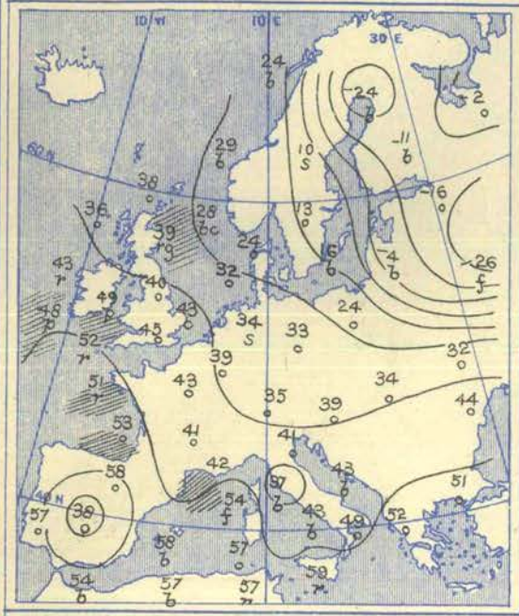
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

NOTE.—It will be observed that Bath has been added to the list of stations in England S.W., and Colly Weston to that in the Midland Counties.

Sunday, 30th December.

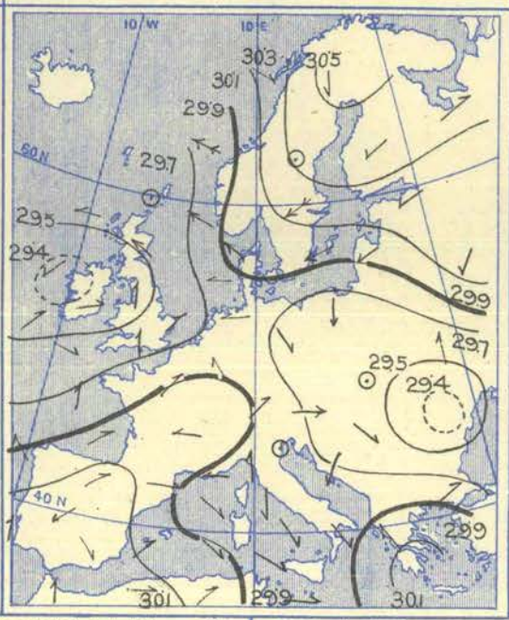
Temperature and Weather.

8 a.m.

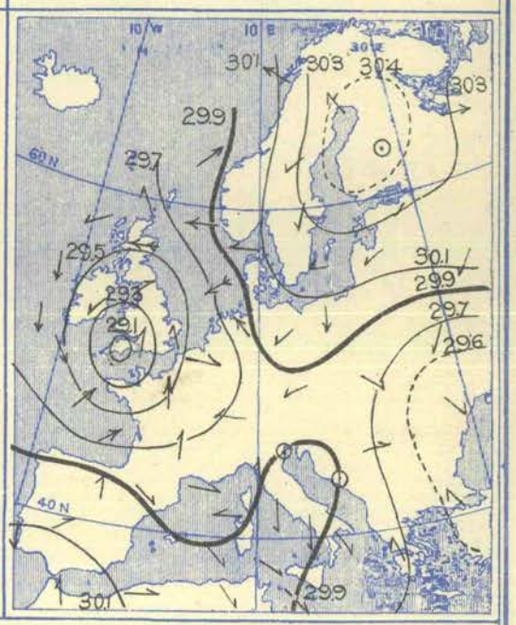


Barometer and Wind.

8 a.m.



6 p.m



Weather in morning fine and bright over the extreme northern, and fair, but dull, over the south-western parts of Europe; dull and very changeable over the British Islands, the southern parts of Russia, and many parts of central Europe, with rain in the former districts; rain and snow over south Germany. Very heavy rains later in many of our south-western districts, and over England—as much as 3 ins. at Bath and in some parts of South Wales—a great deal in the west and south-west of France. Snow over several parts of south-eastern Europe.

Temperature fallen over northern and central Europe; risen temporarily in many parts of the British Islands and France; fallen over the Mediterranean and Spain. Morning readings highest, 59° at Malta, 57° at Tunis, Algiers, and Lisbon, 56° at Corunna, 51° at Brest; 52° to 49° on the south-western coasts of the British Islands. Lowest, −26° Fahr. at Moscow, −11° at Kuopio, −4° at Helsingfors and Riga, +13° at Kharkov, 34° to 39° over central Europe, 45° over the central parts of England. Rising later to between 50° and 54° at our south-western stations to 57° at Rochefort and 66° at Perpignan.

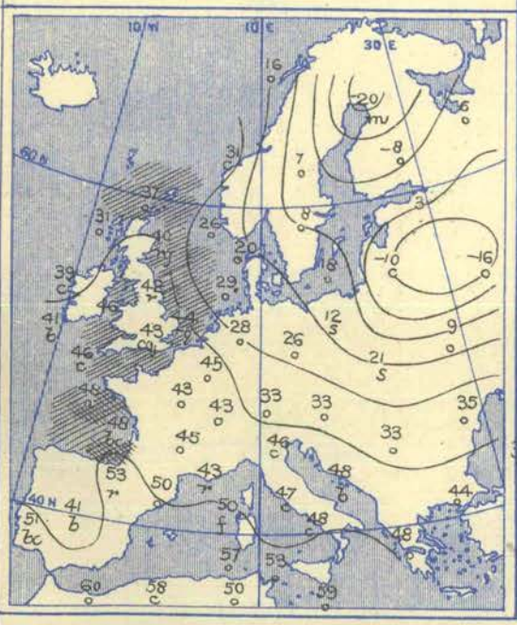
Wind anticyclonic over northern Europe as a whole, but blowing a gale from South-East on the west coasts of Norway; anticyclonic over south-western Europe also. Light to moderate, but cyclonic, over the British Isles, as well as over parts of south-eastern Europe. A very definite cyclonic system of increasing intensity appearing later over Devon and Dorset, apparently from West-South-West, and barometer rising in Ireland.

Barometer at 8·0 a.m. highest, (1) 30·5 ins. to 30·0 ins. over northern Europe; (2) 30·2 ins. and more to 30·0 ins. over the Spanish Peninsula and south-west of France. Lowest, (1) 29·4 ins. and less in a rather shallow depression over the north of Ireland; (2) also in another over the south-west of Russia and Hungary. Some new disturbance evidently approaching Scilly from the westward. Latter system appearing definitely later over Devonshire, and growing deeper quickly.

Monday, 31st December.

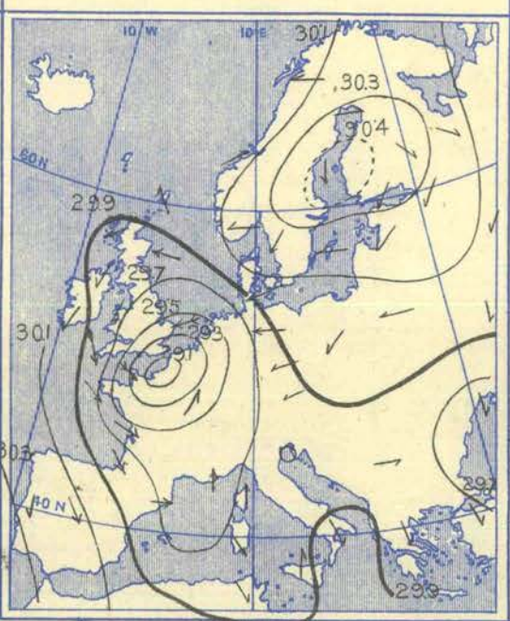
Temperature and Weather.

8 a.m.

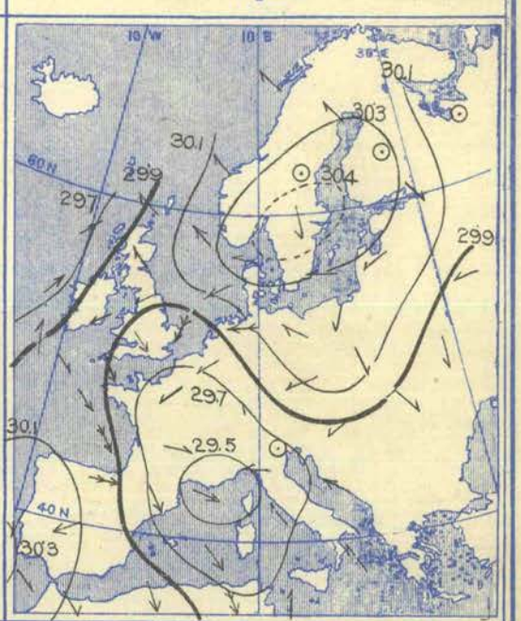


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine, both over northern Europe and south-western Europe; very changeable and unsettled over the intervening countries; rainy and squally over England, the Channel, and France; fair over Scotland and Ireland. Rain later over all the British Islands, and at many of the French and German stations—considerable in most places—smaller quantities in the north of Italy.

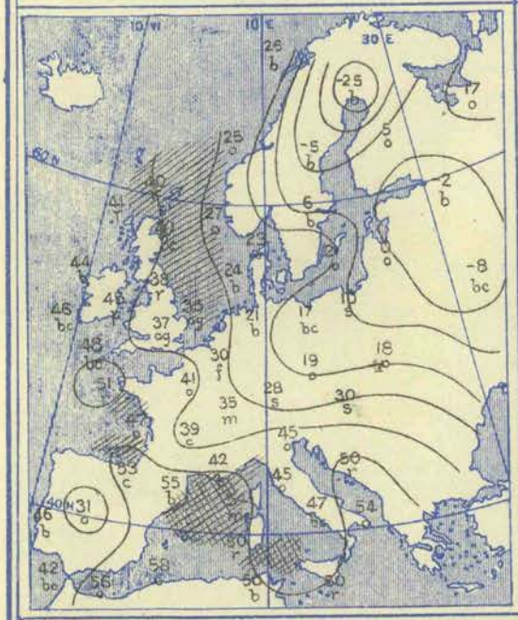
Temperature decreasing over Ireland, England, and the North Sea; changing irregularly and fitfully elsewhere. Morning readings highest, 60° at Oran, 57° at Cagliari, 53° at Biarritz, 49° at Jersey, and above 40° on our western and north-western coast stations. Lowest, −20° Fahr. at Uleaborg, −16° at Moscow, and very low over the northern parts of Europe generally; +3° at St. Petersburg, 9° at Kieff, 22° to 33° over Poland, Austria, and Germany, 32° at Nairn, 37° at Sumburgh Head. Rising later to 48° at Dungeness, 50° at Jersey, 51° at Valencia, to 55° at Rochefort, 57° at Biarritz, Naples, and Brindisi, 59° at Sanguinaire; not exceeding 55° over any of the eastern parts of England.

Wind light to fresh, and anticyclonic, over northern Europe; North-Westerly in the extreme south-west. A large cyclonic circulation observed over the British Islands and the north and west of France—blowing a North-Easterly to North-Westerly gale in several places. Moderate, Easterly in Scotland and Northerly in Ireland. Gale moderating slowly later, but a Southerly breeze of considerable force setting in over Ireland and Scotland.

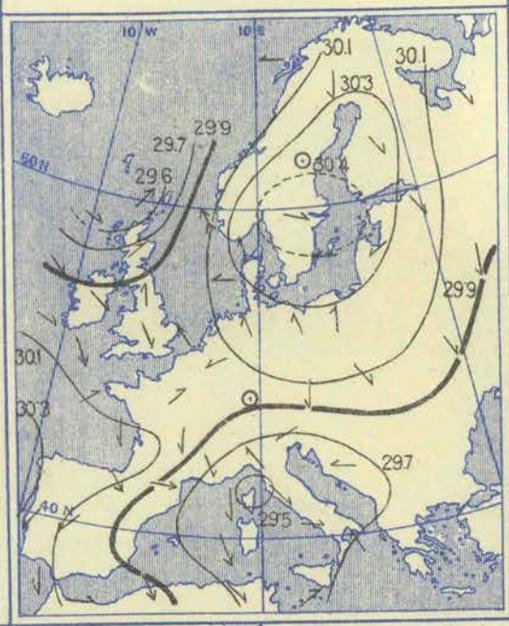
Barometer highest, (1) 30·4 ins. and more to 30·0 ins. in an anticyclone over northern Europe (maximum at Hernösand); (2) 30·3 ins. to 29·9 ins. over the Spanish Peninsula; rising in the north and west; falling over France and central Europe. Depression in south-east England moving towards France and filling up; a new depression approaching our west and north-west coasts.

Tuesday, 1st January.

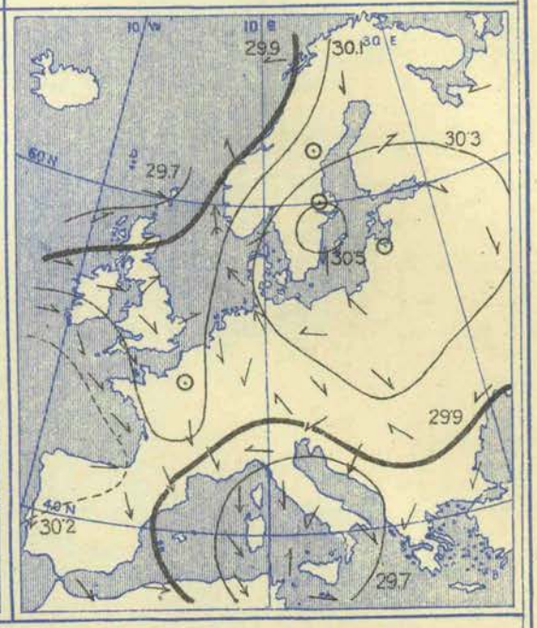
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still very unsettled and rainy in the extreme north of Scotland; rough and unsettled, with rain in many places, over the Mediterranean; comparatively fine over south-western Europe, and fine, though cloudy locally, in the far north. A little rain in Scotland and Ireland later, very little in any part of England, and some in the south-west of France. General condition improving.

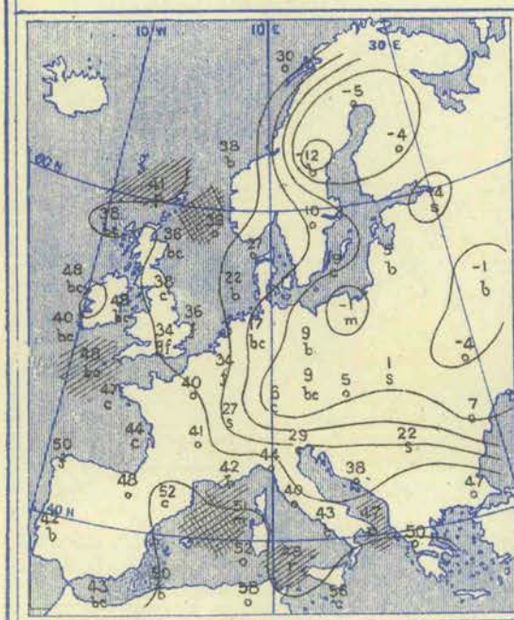
Temperature falling over England and at most of the Continental stations, but inclined to increase in Scotland and Ireland. Changes very fitful. Morning readings highest, 58° at Algiers, 54° at Brindisi, 51° at Brest, and 48° to 44° on the western coasts of the British Isles. Lowest, below zero Fahr. over many parts of northern and central Europe, 19° at Munich, 20° to 25° to the eastward of the North Sea, 35° at Yarmouth, touching 50° to 53° at our extreme south-western coast stations, 54° in the south-west and on the south coasts of France, 61° at Sanguinaire.

Wind (1) fresh to a gale from between North-West and South-West in the north of our Islands, South-Easterly to Easterly in Norway; moderate to fresh and cyclonic over the Mediterranean. (2) Much less strong and anticyclonic over northern Europe, North-Easterly to North-Westerly over south-western Europe, light and variable over the south of England and north of France.

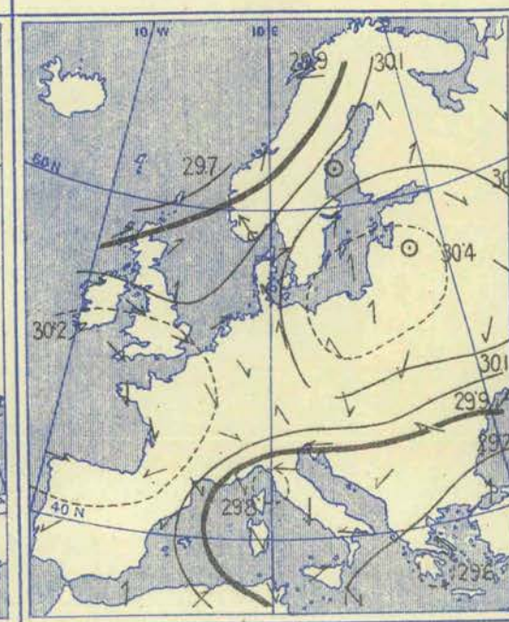
Barometer highest, (1) 30·4 ins. and more to 30·0 ins. over Sweden, the Baltic, and north Europe; (2) 30·3 ins. and more to 30·0 ins. over Portugal and the north and West of Spain. Lowest, (1) below 29·6 ins. in a depression over, and to the northward of the north of Scotland; (2) 29·5 ins. to 29·9 ins. in a well-marked disturbance over the northern and eastern parts of the Mediterranean. Rising generally later and pressure becoming more uniform generally. Northern anticyclone moving southwards, southern one spreading northwards.

Wednesday, 2nd January.

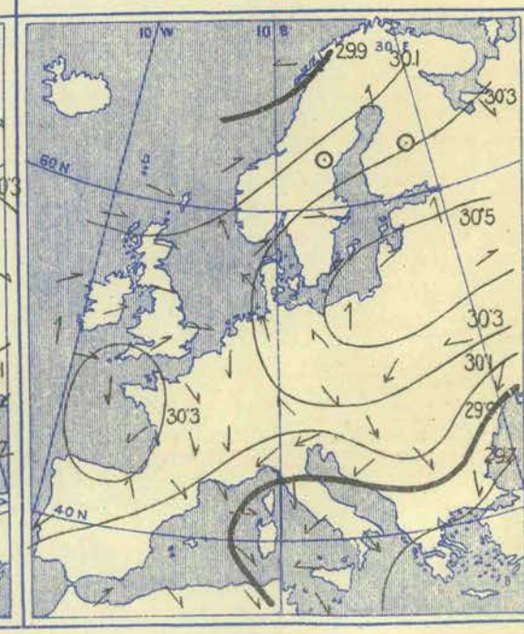
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning much finer and brighter over our Islands generally than of late. Sky clear in many places, but fog forming in London: rain falling at Christiansund. Still rather disturbed over the Mediterranean; rainy at Palermo and Brindisi; snow at Hermanstadt.

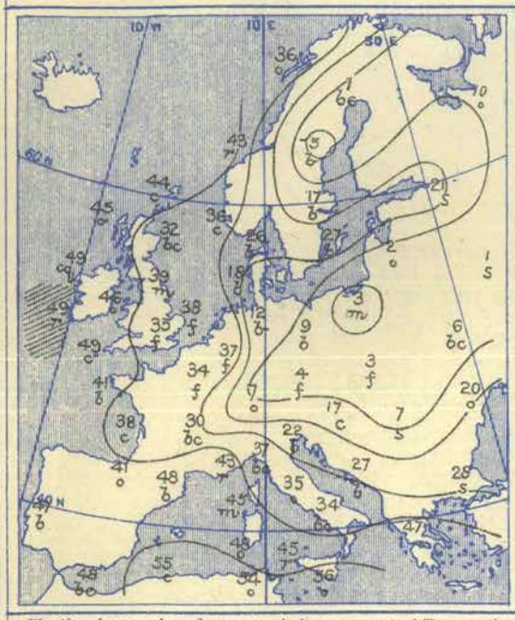
Temperature fallen over south-eastern and many parts of southern Europe, and in less degree over Great Britain. Morning readings highest, 58° at La Calle, 50° and more on the southern and western shores of the Mediterranean, 48° at Scilly and Blacksod Point, 45° at Holyhead. Lowest, −5° at Haparanda, and below zero Fahr. over the greater part of Russia; +6° to 15° over central Europe, 31° to 34° over our Midland counties. Rising during day to between 50° and 52° on our extreme south-west coasts to a little above 40° over the Midland and eastern counties, but not touching 20° over Germany.

Wind very light and anticyclonic over north Germany and the Baltic, as well as over the Bay of Biscay, the western parts of France, and south-west of our Islands. Cyclonic, Westerly in the north of Scotland, Southerly in the west of Norway, Easterly at Bodö; cyclonic also (but not strong) over the Mediterranean and south of France. Anticyclonic winds spreading Northward and Westward later from the Bay of Biscay, that over southern Europe moving south-eastwards.

Barometer highest (1) 30·5 ins. to 30·3 ins. over the Baltic and Germany; 30·3 ins. to 30·2 ins. over the Bay of Biscay and west of France. Lowest, (1) 29·9 ins. and less in the north of Norway; (2) 29·7 ins. and less to 29·9 ins. over the south-eastern parts of the Mediterranean. The anticyclone over the Bay of Biscay moving north-eastwards later and spreading northwards and eastwards, the southern disturbance moving south-eastwards.

Thursday, 3rd January.

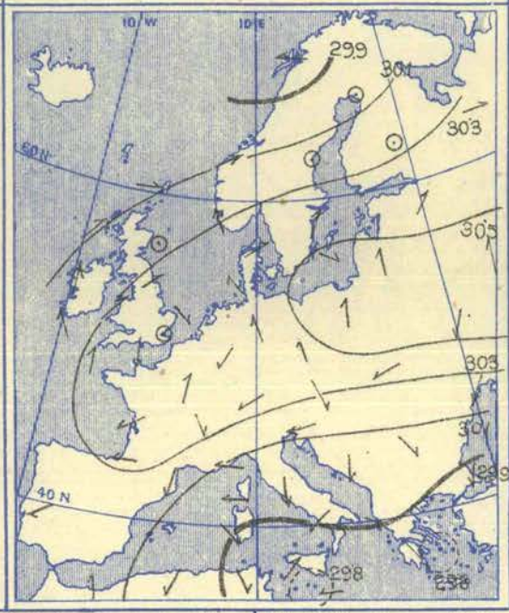
Temperature and Weather. 8 a.m.

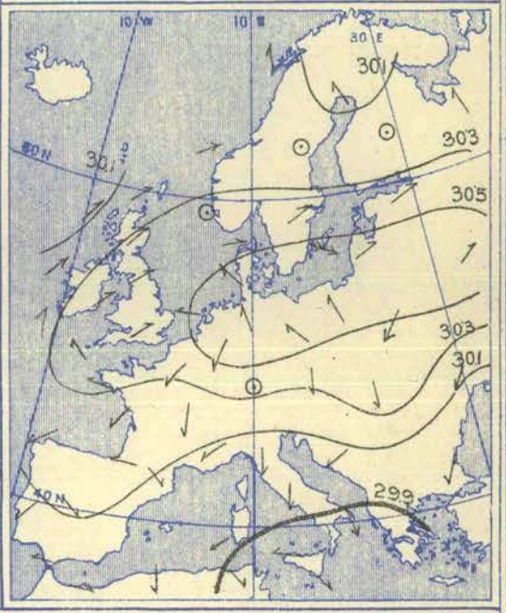


Weather in morning fine as a whole over central Europe, the North Sea, England, and the northern half of France; sky clear in many localities, but foggy very generally over England—especially in the towns; rain falling at Valencia and Bodö on the one hand, at Marseilles and Toulon on the other. A little rain later at our extreme western and northern stations; snow at Munich. Much fog over the south-eastern and inland parts of England.

Temperature fallen over the Mediterranean and southern Europe. Morning readings highest, 56° at Malta, above 50° on the Algerian coast; 49° at Scilly, Valencia, and Blacksod Point; above 40° at most of our western and south-western coast stations. Lowest, − 5° Fahr. at Hernosand, + 1° at Moscow; below 10° Fahr. over the greater part of Germany and Austria-Hungary; 34° at Paris, 33° to 35° over the inland parts of England. Touching 50° to 52° on the extreme west and south-west coasts later, 43° to 40° over England, but not exceeding 14° at Munich and Frankfürt, 27° at Belfort.

Barometer and Wind. 8 a.m. 6 p.m.



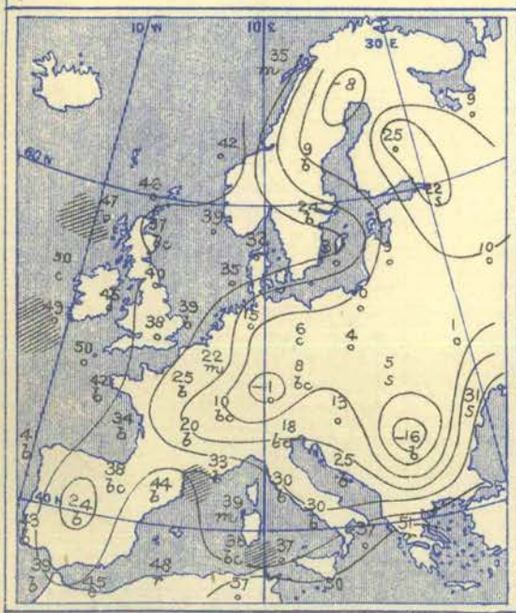


Wind light and very variable over Germany, the Netherlands, France, and England—mainly anticyclonic, but not purely so. Southerly to Westerly over the extreme western coasts of our Islands and the north-west of Norway; East to North and North-West over the Mediterranean. The Southern current over our western districts spreading a little later, and continuing fresh.

Barometer highest, 30·5 ins. and more to 30·4 ins. over central Europe, and the anticyclone stretching westwards (with readings exceeding 30·3 ins.) over the North Sea, England, and France. Lowest, 29·9 and less over Finmark; 29·8 ins. and less to 29·9 ins. over the south-eastern part of the Mediterranean. Pressure varying a little in the west of Ireland later; rising over Germany.

Friday, 4th January.

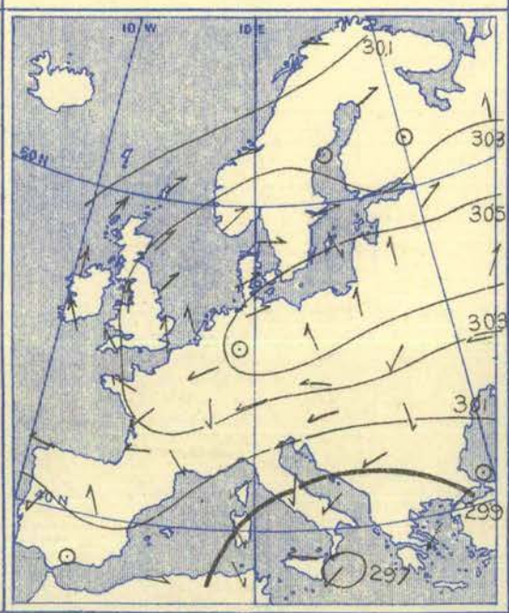
Temperature and Weather. 8 a.m.

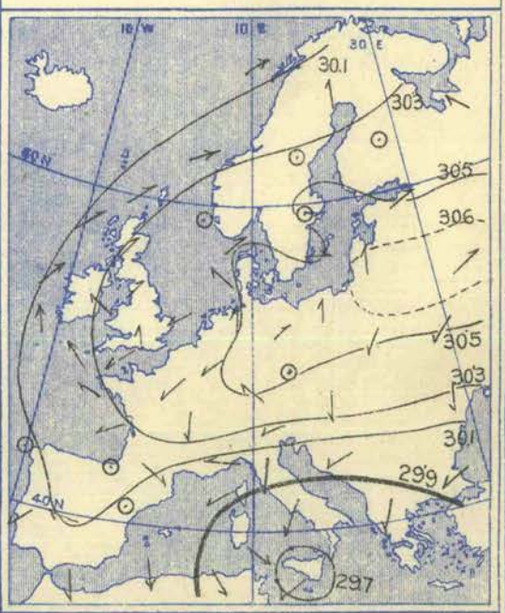


Weather in morning fair over nearly the whole of our Islands and the Continent: but gloomy and hazy in many localities, clear in others—especially over certain parts of France and in Sweden. A great deal of rain later in Lapland (1·96 ins. at Bodö), and some considerable quantity in the Azores, but none in our Islands, France and Germany. Much fog in the south-eastern and midland parts of England.

Temperature fallen over central Europe and France, changed fitfully over England and Ireland, fallen in Lapland. Morning readings highest, 57° at La Calle, 52° at Oporto, 49° to 50° in the south and west of Ireland, 47° at Stornoway, 42° at Christiansund. Lowest, (1) − 8° Fahr. at Harparanda, +10° at Moscow, 22° at St. Petersburg, (2) − 3° at Kharkov, − 16° at Hermanstad, +5° at Warsaw, 6° at Berlin, 12° at Frankfürt. Touching 50° later at our extreme south-western stations and tending to fall towards night in most places.

Barometer and Wind. 8 a.m. 6 p.m.



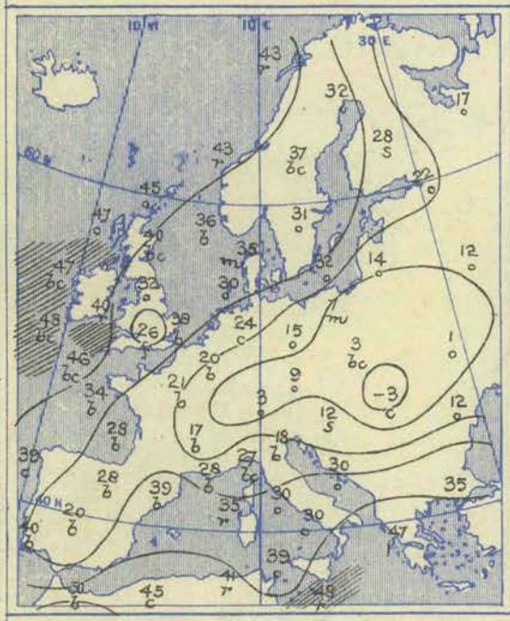


Wind (1) light and anticyclonic over the whole of the eastern, central and western parts of Continental Europe, including Great Britain; (2) Southerly and rather strong in Ireland and the Hebrides; South-Westerly, light, in the west of Norway, but Easterly at Bodö; (3) Easterly to Northerley over the Mediterranean. No change of great importance later

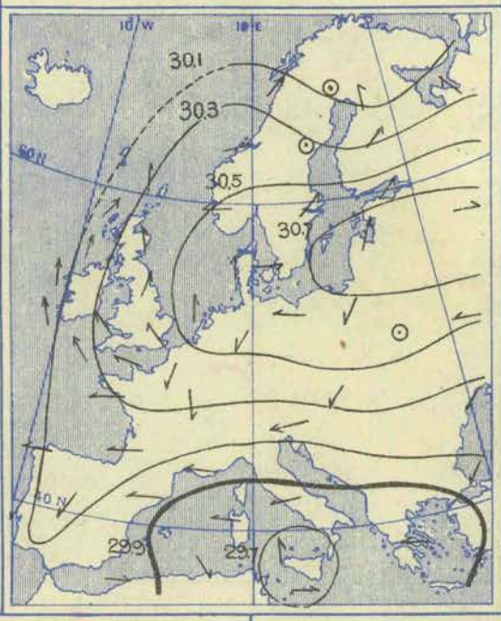
Barometer highest, 30·4 ins. and more to 30·5 ins. from Jersey and Portland right across the north-east of France, the Netherlands, and north Germany to central Russia; 30·59 ins. at Moscow. Lowest, (1) 29·7 ins. and less to 29·9 ins. over the south-eastern parts of the Mediterranean; (2) below 30·1 ins. at Bodö and off the extreme north-west coasts of the British Isles. The European anticyclone tending to move northward later and increasing in intensity; barometer falling somewhat on our west and south coasts and in France.

Saturday, 5th January.

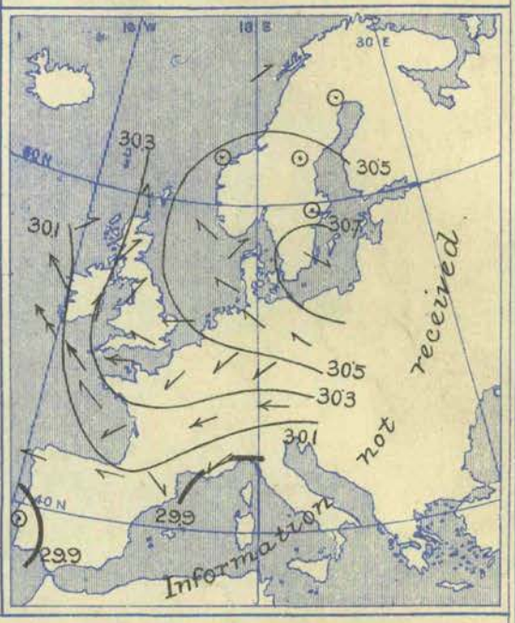
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fair, except in the north-west of Norway on the one hand, and at several of the Mediterranean stations on the other, but very cloudy or foggy in many places, and snow falling at Vienna and Kuopio. Fine and bright in the west and north of our Islands. Very fine later over western Europe and the British Islands; all the fog clearing away from London, and rainfall occurring only at Bodö and at Lisbon.

Temperature fallen over the British Isles, Spain, France and south Germany. Risen in the extreme north of Europe. Morning readings highest, 48° at Malta, 45° at Algiers, 47° to 48° on the south and west coasts of Ireland and in the Hebrides, 46° at Scilly, 43° at Bodö. Lowest, - 3° at Hermanstadt, + 1° Fahr. at Kieff, 2° at Kharkov, 3° at Warsaw, and much below the freezing point all over central Europe and Russia; 30° at Fano, 28° over central England. Rising later to 49° in the west of Ireland, not touching 35° in several parts of England and central France; succeeding night still colder.

Wind (1) moderate North-Easterly and Easterly over southern Europe, Southerly over Ireland and the western coasts of England, South-Westerly in the north of Scotland, and the north-west of Norway; (2) very light and anticyclonic over the Baltic, north Germany and central Russia. Increasing later to a gale from East-South-East in Ireland and to a strong, squally breeze from the East over the south and east of England and the Channel, as well as at Belfort and Munich.

Barometer highest, 30·7 ins. and more at Moscow and Riga, and exceeding 30·4 ins. all over central Europe, the Netherlands, the North Sea and eastern half of England. Lowest, below 30·1 ins. over Lapland, 29·7 ins. and less in a depression over Malta. Falling decidedly over the western and south-western parts of our Islands towards evening; apparently a depression moving south-eastwards outside our extreme western coasts.

GENERAL NOTES.

At the commencement of this week pressure was high over both the northern and the south-western parts of Europe, low over the Black Sea and in certain depressions which were found either over the northern parts of Ireland, or advancing towards our south-western coasts from the westward. The last-named disturbance increased greatly in depth as it advanced and caused very large falls of rain over the south-western, southern, central and eastern parts of England. At 6 p.m. on Sunday its centre was over Dorsetshire, and at 8 a.m. on Monday it was near the Straits of Dover, causing North-Easterly gales on our north-east coasts, North-Westerly in the English Channel, and light South-Westerly breezes over the north-east of France and the Netherlands. Its centre then moved south-eastward and the system filled up. Another disturbance reached our north-western and northern coasts soon after, but then a marked change of pressure distribution and of weather set in.

An anticyclone over the Bay of Biscay, and another over the Baltic and north-east Germany spread gradually; some local irregularities over the south of England and France dispersed, and the two anticyclonic systems merging into one another very gradually, it was found by Friday morning that nearly the whole of Europe was dominated by one large anticyclone, the central portion of which spread from England across the north of France, the Netherlands and North Sea to central Russia.

Very little change in this occurred during the next two days beyond a slight northerly movement, but on Saturday night its western limb yielded a little to a new depression, which passing by our western coasts in a south-south-easterly direction caused piercing Easterly winds over our southern districts at night, and was found over Spain on Sunday morning (6th).

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	9·0	+ 3·5	21	+10	BRIGHTON	18·5	+ 7·2	34	+13
STRATHPEFFER SPA	6·9	+ 0·1	15	0	WORTHING	17·3	?	31	?
EDINBURGH	3·4	- 2·3	7	- 5	BOGNOR	12·7*	?	23*	?
MORPETH	0·0	?	0	?	WATERGATE (Emsworth)	20·1	?	37	?
NEWCASTLE-ON-TYNE	0·0	?	0	?	WESTBOURNE (Emsworth)	16·8*	+ 4·6	31*	+ 9
OSWALDKIRK (Yorkshire)					VENTNOR HOSPITAL	23·0	?	42	?
LOWESTOFT		?		?	SOUTHPORT	5·1	?	10	?
HOLLESLEY BAY	15·4	?	29	?	RHYL	21·1*	?	41*	?
SHEFFIELD	8·1	?	16	?	COLWYN BAY	16·9	?	33	?
WORKSOP	5·0	- 2·4	10	- 4	ABERDOVEY	23·4*	?	45*	?
THURCASTON (Leicestershire)	4·9	- 3·1	9	- 6	TENBY	17·5	+ 5·3	32	+10
MARGATE	12·0	+ 1·5	22	+ 4	NEWQUAY				
BROADSTAIRS	14·1	?	26	?	TORQUAY	26·7	+14·1	48	+26
EASTBOURNE	17·5	+ 5·2	32	+10	GUERNSEY	15·2*	+ 4·2	27*	+ 8

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Dec. 15th, 1900	Rhyl	—	—	—	—	—	—	—	—	—	—	—	14·6	?	28	?
,, ,, ,, 22nd, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	17·4	?	34	?
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	5·2	- 4·9	10	- 10
,, ,, ,, 29th, ,,	Edinburgh	—	—	—	—	—	—	—	—	—	—	—	3·3	- 2·5	7	- 4
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	5·4	- 4·9	10	- 10

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 2.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 12TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 8.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	18	41·2	32·8	37·2	1 below	0	− 6	34	− 2	5	− 7	62	− 7
	1. SCOTLAND, EAST	44	16	38·6	30·7	34·8	2 below	0	− 7	50	+ 7	1	−12	82	0
	2. ENGLAND, N.E.	49	18	40·1	31·9	36·1	2 below	0	− 7	41	+ 3	1	−14	71	− 2
	3. ENGLAND, EAST	49	18	38·5	29·9	34·4	3 below	0	− 7	53	+11	0	−15	83	+ 3
	4. MIDLAND COUNTIES	48	17	36·9	28·6	32·9	5 below	0	− 9	64	+21	0	−19	103	+21
	5. ENGLAND, SOUTH	51	− 2	40·4	28·6	34·7	4 below	0	−11	51	+18	5	−18	81	+19
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	24	40·3	33·6	37·1	2 below	0	−10	34	+ 3	9	−12	54	− 5
	7. ENGLAND, N.W.	47	19	38·9	30·6	34·9	4 below	0	− 9	50	+20	5	−15	71	+14
	8. ENGLAND, S.W.	50	21	41·1	29·4	35·7	5 below	0	−15	44	+21	9	−22	71	+27
	9. IRELAND, NORTH	47	19	40·7	33·1	37·0	3 below	0	−13	35	+ 9	18	− 9	45	− 5
	10. IRELAND, SOUTH	52	21	41·5	33·2	37·5	4 below	0	−20	32	+11	25	−16	42	+ 2
	—CHANNEL ISLANDS	52	23	45·2	34·4	40·0	4 below	9	−14	30	+20	52	+ 4	30	+12

Rainfall.

	DISTRICTS. (See p. 8.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	1	12 less	7	+ 2	0·9	− 1·7
	1. SCOTLAND, EAST	4	3	3 less	7	+ 3	0·8	− 0·5
	2. ENGLAND, N.E.	3	3	2 less	6	+ 2	1·3	+ 0·4
	3. ENGLAND, EAST	2	1	4 less	5	+ 1	1·2	+ 0·3
	4. MIDLAND COUNTIES	4	3	3 less	8	+ 4	2·1	+ 1·0
	5. ENGLAND, SOUTH	4	4	2 less	7	+ 3	1·4	+ 0·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	2	12 less	8	+ 3	0·9	− 1·8
	7. ENGLAND, N.W.	4	2	6 less	7	+ 3	0·6	− 0·9
	8. ENGLAND, S.W.	4	6	4 less	7	+ 3	1·9	0·0
	9. IRELAND, NORTH	4	6	2 less	8	+ 3	0·9	− 0·7
	10. IRELAND, SOUTH	4	11	2 more	7	+ 2	1·4	− 0·6
	— CHANNEL ISLANDS	4	10	2 more	7	+ 2	1·6	0·0

Bright Sunshine.

	DISTRICTS. (See p. 8.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	0	12	0	11	0	12	0
	1. SCOTLAND, EAST	2	− 6	5	−10	7	− 8	7	− 8
	2. ENGLAND, N.E.	1	− 9	1	−18	2	−18	1	−17
	3. ENGLAND, EAST	9	− 3	16	− 6	20	− 6	14	− 5
	4. MIDLAND COUNTIES	7	− 2	14	− 5	14	− 4	14	− 3
	5. ENGLAND, SOUTH	12	0	22	0	28	+ 4	23	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	− 4	8	− 7	12	− 3	12	− 3
	7. ENGLAND, N.W.	13	+ 3	24	+ 5	24	+ 3	18	+ 3
	8. ENGLAND, S.W.	14	+ 3	24	+ 5	32	+11	30	+ 9
	9. IRELAND, NORTH	8	− 1	14	− 4	28	+10	27	+10
	10. IRELAND, SOUTH	7	− 5	13	− 9	25	+ 1	23	+ 2
	— CHANNEL ISLANDS	13	+ 2	22	+ 4	36	+ 9	30	+ 8

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was very cold and wintry during the earlier half of the period, with rather considerable falls of snow in many parts of Great Britain. The latter days of the week, however, were milder; heavy rain being experienced in the south of Ireland, and slight falls at most of the English and Scotch stations.

Temperature was below the mean in all districts, the deficit ranging from 1° in Scotland N. to 5° in the Midland Counties and England S.W. The highest of the maxima were registered on the 12th, and varied from 52° in Ireland S. and the Channel Islands, and 51° in England S. to 44° in Scotland E. The lowest of the minima were recorded on the 9th. They were low generally, ranging in most cases from 16° in Scotland E. to 23° in the Channel Islands. At Southampton and Westbourne (Emsworth), however, the thermometer fell to 13°, while at Swarraton (Alresford) the very exceptional reading of 2° below zero was recorded. The mean temperature for the week over the Kingdom generally was much lower than at any other time during the present winter.

Rainfall exceeded the mean in Ireland S. and the Channel Islands, but was less than the normal in all other parts of the Kingdom. In Scotland N. and England E the fall was very small.

Bright Sunshine was deficient in most districts, especially over the north-eastern parts of Great Britain. The percentage of the possible duration ranged from 24 in England S.W. and 22 in England S. and the Channel Islands, to 8 in Scotland W., 5 in Scotland E. and to 1 in England N.E.

Barometer and Wind.—During the early part of the week the distribution of pressure was anticyclonic, the barometer being highest over Scandinavia, and lowest over the Bay of Biscay. The gradients for Easterly winds were moderate, and the winds prevailing were mostly light or moderate in force. By Tuesday there were indications of the approach of depressions towards our south-western coasts, and during the following day a small disturbance, which for a short time was extremely deep, moved slowly northwards in the neighbourhood of the Scilly Islands. This system caused at first a Southerly gale in the western part of the English Channel and an Easterly gale in St. George's Channel, but as it continued to move slowly northward and north-westward, and to gradually fill up, the winds became light generally, and from between South and South-East in direction. At the close of the week the conditions were again mainly anticyclonic, but the barometer was falling on our south-western coasts.

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II.—DATA from which the SUMMARY on page 7 has been calculated.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head	45	36	42·3	36·9	39·7	+ 0·5	1	19	5	0·51	− 0·39	*	*	*	*
	Stornoway	46	29	42·6	32·3	37·7	− 1·0	2	36	1	0·01	− 1·12	14·4	+ 7·9	31	+18
	Wick	48	30	43·7	33·3	38·7	+ 1·1	5	33	5	0·16	− 0·38	*	*	*	*
	Lairg ℌ	42	18	37·5	28·8	33·3	− 1·6	0	61	3	0·04	− 0·78	*	*	*	*
	Glencarron ℌ	45	24	39·5	31·1	35·5	− 1·5	0	46	0	—	− 2·28	*	*	*	*
	Fort Augustus ℌ	47	23	40·9	33·1	37·2	− 1·2	0	34	2	0·02	− 1·08	5·3	+ 1·9	11	+ 5
	Fort William ℌ	47	28	41·6	34·4	38·1	− 0·6	0	27	2	0·04	− 2·21	1 5	− 3·0	3	− 7
1. SCOTLAND, E.	Nairn	44	23	39·7	29·1	34·6	− 2·8	0	52	0	—	− 0·45	*	*	*	*
	Aberdeen	43	29	40·0	33·7	37·0	− 0·5	0	35	4	0·22	− 0·34	4·1	− 6·8	9	−13
	Braemar ℌ	39	16	35·5	28·2	32·0	− 2·2	0	70	4	0·29	− 0·40	*	*	*	*
	Ochtertyre ℌ	43	25	38·1	31·4	34·9	− 1·8	0	50	7	0·75	− 0·29	*	*	*	*
	Leith ℌ	44	29	41·1	33·4	37·4	− 1·5	0	32	3	0·20	− 0·21	*	*	*	*
	Marchmont ℌ	41	22	36·9	28·3	32·8	− 3·4	0	64	6	0·45	− 0·16	0·0	− 9·0	0	−16
2. ENGLAND, N.E.	Alnwick Castle	45	27	42·0	32·0	37·2	− 0·5	0	34	5	0·52	− 0·01	*	*	*	*
	Durham	42	18	37·1	30·2	33·8	− 3·1	0	57	4	0·39	− 0·09	0·0	−10·2	0	−19
	Shields	45	25	42·1	32·6	37·5	− 1·0	0	34	4	0·48	+ 0·06	*	*	*	*
	Scarborough ℳ	46	31	40·8	35·1	38·1	− 0·2	0	27	3	0·16	− 0·31	1·3	?	2	?
	Spurn Head	49	28	42·6	33·7	38·3	+ 0·1	2	31	0	—	− 0·37	*	*	*	*
	Fulbeck (Lincolnshire)	40	23	35·7	27·7	31·9	− 4·5	0	71	3	0·09	− 0·31	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	45	18	37·9	29·7	34·0	− 2·7	0	56	2	0·05	− 0·42	9·8	− 0·2	18	0
	Yarmouth	43	27	38·3	31·3	34·9	− 2·5	0	50	2	0·13	− 0·34	*	*	*	*
	Geldeston	48	20	39·5	28·8	34·4	− 3·5	0	53	1	0·01	− 0·39	10·0	− 0·5	18	− 3
	Cambridge	49	22	38·1	29·3	33·9	− 3·4	0	57	1	0·06	− 0·29	6·3	− 4·2	11	− 8
	Felixstowe	46	28	40·3	33·8	37·2	− 1·0	0	34	0	—	?	13·3†	?†	24†	?†
	Rothamsted	43	18	37·1	26·6	32·1	− 5·1	0	69	6	0·13	− 0·42	1·6	− 8·4	3	−15
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	21	37·9	29·3	33·8	− 3·4	0	57	4	0·13	− 0·29	*	*	*	*
	Loughborough	47	22	37·6	28·6	33·3	− 4·3	0	61	3	0·15	− 0·32	*	*	*	*
	Colly Weston (Stamford)	42	18	35·6	26·3	31·1	− 6·1	0	76	5	0·20	?	*	*	*	*
	Cheadle ℳ	45	25	35·5	29·8	32·8	− 3·8	0	64	4	0·21	− 0·40	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	46	24	36·1	29·8	33·1	− 4·8	0	62	2	0·11	− 0·38	7·4	?	13	?
	Churchstoke ℳ	44	23	36·2	29·4	32·9	− 4·8	0	64	5	0·26	− 0·39	11·7	+ 1·7	22	+ 4
	Hereford (Belmont) ℳ	46	25	37·7	29·7	33·9	− 4·4	0	57	6	0·79	+ 0·23	*	*	*	*
	Cirencester	47	19	37·1	27·1	32·3	− 5·1	0	68	5	0·28	− 0·37	6·8	− 3·4	12	− 7
	Oxford	48	17	38·4	27·4	33·1	− 5·1	0	62	5	0·22	− 0·23	7·5	− 2·5	14	− 4
5. ENGLAND, S.	London	51	21	40·4	28·9	34·9	− 4·0	0	50	4	0·18	− 0·27	2·9†	− 2·3†	5†	− 5†
	Swarraton (Alresford) ℳ	49	− 2	38·4	23·1	31·1	− 6·4	0	76	3	0·56	− 0.14	*	*	*	*
	Dungeness	48	24	41·6	32·3	37·1	− 2·3	0	34	3	0·30	− 0·15	12·3	?	22	?
	Hastings (St. Leonards)	49	24	41·2	32·6	37·1	− 2·5	0	34	5	0·29	− 0·36	11·8	− 1·5	21	− 2
	Southampton	51	13	41·1	27·8	34·7	− 5·0	0	51	2	0·20	− 0·50	12·2	+ 0·9	22	+ 3
	Portland Bill	50	24	41·9	30·9	36·2	− 5·2	0	41	4	0·32	?	*	*	*	*
	Shaftesbury ℳ	46	21	37·9	25·7	32·0	− 5·2	0	70	4	1·08	+ 0·39	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	29	42·7	35·1	39·1	− 0·9	2	26	3	0·07	− 1·83	*	*	*	*
	Glasgow	44	31	38·6	33·8	36·3	− 2·0	0	40	4	0·24	− 0·65	1·8	− 3·2	4	− 6
	Glenlee ℌ	42	24	39·2	30·0	34·8	− 2·6	0	50	4	0·27	− 1·33	*	*	*	*
	Douglas (Isle of Man)	46	32	40·8	35·3	38·1	− 2·7	0	27	4	0·23	− 0·77	5·8	− 4·9	11	− 9
7. ENGLAND, N.W.	Newton Reigny	45	25	38·1	29·4	33·9	− 1·7	0	57	4	0·13	?	7·2	?	14	?
	Stonyhurst	44	26	37·2	31·7	34·6	− 3·1	0	52	4	0·06	− 0·92	7·2	0·0	14	0
	Blackpool ℳ	46	19	39·7	29·4	34·8	− 3·5	0	50	4	0·19	− 0·49	7·0	− 0·7	13	− 1
	Manchester (Prestwich)	47	25	38·6	30·3	34·6	− 3·3	0	52	5	0·20	− 0·55	5·0	?	9	?
	Liverpool Obsy. (Bidston)	45	23	38·1	30·6	34·5	− 4·8	0	53	4	0·41	− 0·12				
	Llandudno ℳ	47	25	40·5	31·7	36·3	− 5·0	0	40	2	0·03	− 0·62	17·7	+ 8·0	33	+15
	Holyhead	45	27	40·1	31·3	35·9	− 6·2	0	43	2	0·15	− 0·62	*	*	*	*
8. ENGLAND, S.W.	Llandovery	46	24	39·0	28·7	34·1	− 3·9	0	55	2	0·14	− 1·04	*	*	*	*
	Pembroke	48	29	41·0	34·1	37·7	− 5·1	0	30	3	0·87	− 0·01	8·2	− 8·2	15	−11
	Clifton	48	26	39·0	30·1	34·6	− 4·8	0	52	3	0·85	+ 0·09	*	*	*	*
	Bath	49	22	39·1	27·1	33·3	− 6·7	0	61	3	0·70	?	8·3	*	15	*
	Arlington (N. Devon)	?	20	?	25·6	?	?	?	?	2	0·17	− 0·89	*	*	*	*
	Cullompton ℳ	48	21	40·5	26·5	33·8	− 5·8	0	57	3	0·18	− 0·60	14·8	+ 5·2	26	+ 9
	Falmouth	49	29	44·0	33·4	38·9	− 4·7	6	33	6	1·16	− 0·02	13·0	+ 0·2	23	+ 1
	Plymouth	50	25	44·9	29·9	37·7	− 4·4	8	46	6	0·40	− 0·48	18·6	+ 7·4	33	+13
9. IRELAND, N.	Malin Head	45	30	40·3	34·3	37·4	− 4·0	0	32	4	0·70	?	*	*	*	*
	Londonderry	46	27	41·4	32·3	37 0	− 2·9	0	35	4	0·48	− 0·49	*	*	*	*
	Edenfel (Omagh)	46	27	39·7	31·6	35·8	− 1·8	0	43	3	0·89	+ 0·09	*	*	*	*
	Blacksod Point	47	29	41·1	33·7	37·6	− 5·1	0	31	4	0·45	?	*	*	*	*
	Markree Castle	47	19	39·3	29·5	34.6	− 4·6	0	52	4	0·48	− 0·39	11·7	+ 3·6	22	+ 5
	Armagh	45	27	40·3	33·8	37·2	− 1·5	0	34	4	0·93	+ 0·30	3·4	− 6·6	6	−12
	Donaghadee	46	31	42·7	36·3	39·6	− 0·8	2	21	4	0·28	− 0·37	*	*	*	*
10. IRELAND, S.	Dublin	48	32	42·0	35·8	39·0	− 2·4	0	21	5	1·51	+ 1·01	4·7	− 8·0	9	−15
	Parsonstown	49	21	39.1	29·6	34·5	− 5·0	0	53	4	0·57	− 0·11	7·7	− 5·6	14	− 7
	Kilkenny	48	25	40·0	30·6	35·5	− 5·2	0	46	4	1·12	+ 0·36	*	*	*	*
	Roche's Point	49	33	42·7	36·4	39·7	− 3·7	2	21	4	1·36	+ 0·18	*	*	*	*
	Valencia	52	29	45·1	36·3	40·9	− 3·7	9	24	4	1·20	− 0·19	9·3	− 2·4	17	− 4
	Killarney												*	*	*	*
	Foynes	51	23	40·2	30·2	35·4	− 6·0	0	46	4	0·54	− 0·30	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	32	47·0	36·7	42·1	− 3·8	23	15	4	1·60	+ 0·75	9·3	?	16	?
	Jersey	52	23	43·4	32·0	37·9	− 4·7	4	37	4	0·38	− 0·37	19·2	+ 4·3	33	+ 8

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

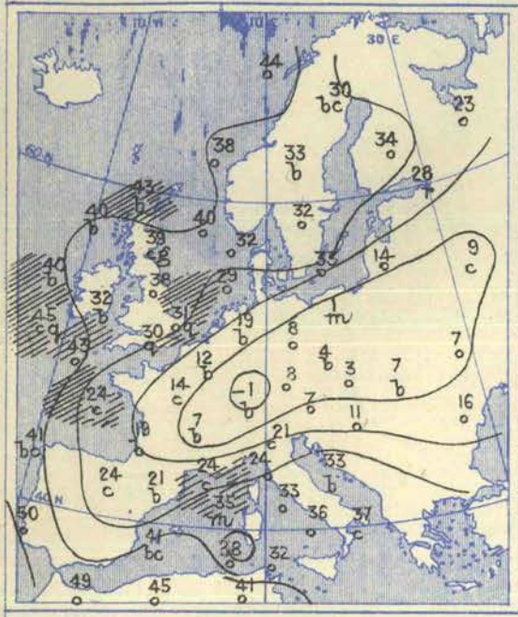
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 6th January.

Temperature and Weather.

8 a.m.

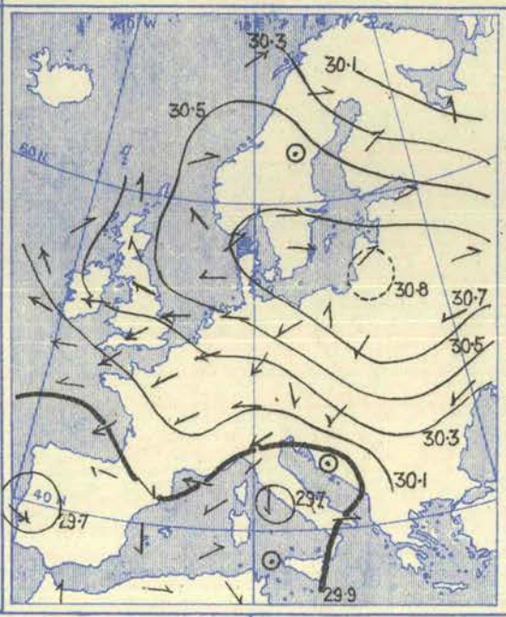


Weather in morning fine over the greater part of our Islands, France, and Germany, as well as in the Gulf of Bothnia. Cloudy or dull in most other parts of Europe, with rain at St. Petersburg, and snow at Nicolaieff. Snow falling later in the west of France, and also in some parts of Austria, and rain at several of the Spanish and Italian stations.

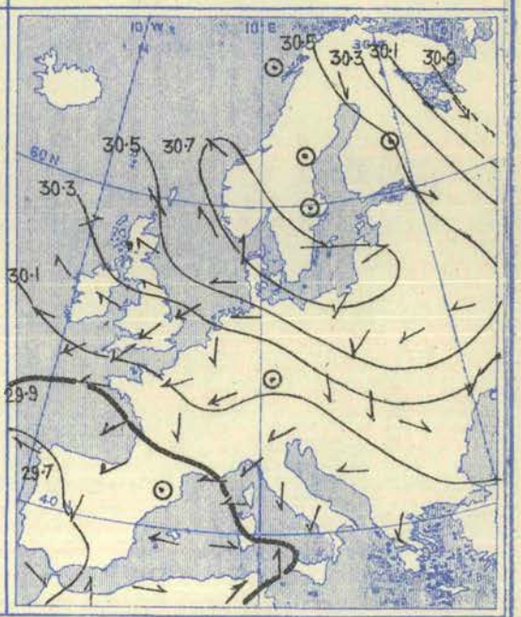
Temperature fallen over western and central Europe generally, risen in the south and also in the extreme north. Morning readings highest, (1) 50° at Lisbon, 49° at Oran, and 46° at Nemours; (2) 45° at Valencia (Ireland), and 43° at Scilly—(3) 44° at Bodö, and 43° at Sumburgh Head. Lowest,—1 Fahr. at Munich, +1 at Neufahrwasser, 3° at Cracow; considerably below the freezing point over the whole of central Europe, and slightly below it over England; as low as 28° even at Cagliari, and 32° at Palermo. Daily maxima below 35° at many of the English stations; thermometer at Dungeness not exceeding 31°. Hard frost continuing over central Europe all day. Sharp frost reported over England at night.

Barometer and Wind.

8 a.m.



6 p.m



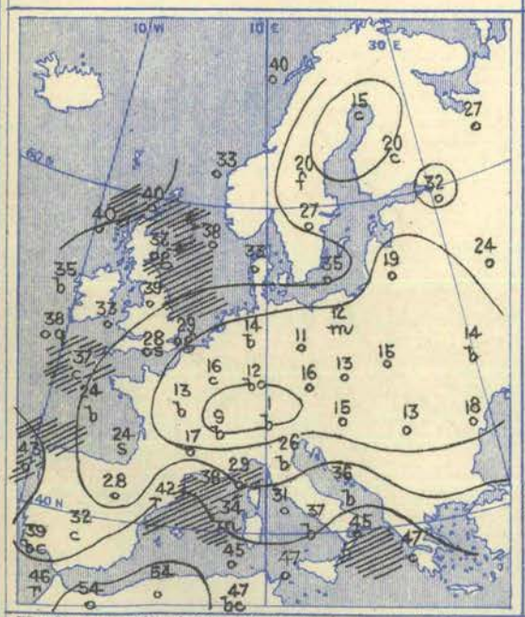
Wind Easterly or North-Easterly over the whole of England, France, and central Europe, and South-Easterly in Ireland; strong in force on most of the English and Irish coasts with a gale at Yarmouth. Light to moderate from the Southward in the north of Scotland, and from the South-Westward or Westward in the northern parts of Scandinavia and Russia. Westerly or South-Westerly also at many of the Mediterranean stations.

Barometer highest, 30·32 ins. at Memel; 30·3 ins. and upwards in an anticyclone covering nearly the whole of northern and central Europe, and extending over the northern and central parts of Great Britain. Lowest, 29·7 ins. and less in two depressions,—one lying over Portugal, and the other over central Italy. Former depression subsequently spreading eastwards; latter system moving southwards and filling up.

Monday, 7th January.

Temperature and Weather.

8 a.m.

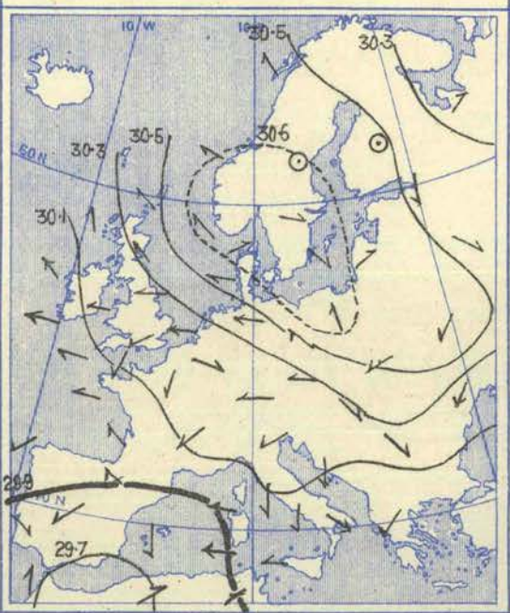


Weather in morning cloudy and unsettled over nearly the whole of Europe, with snow in the south and south-east of England, and also at Rochefort and Limoges; rain falling at Barcelona, Brindisi, and San Fernando. Fine over western Germany and the east of France, as well as at many of the Italian stations. Snow or sleet falling later in many parts of Great Britain and France, and rain in Portugal. Sky clearing temporarily in the north of Scotland.

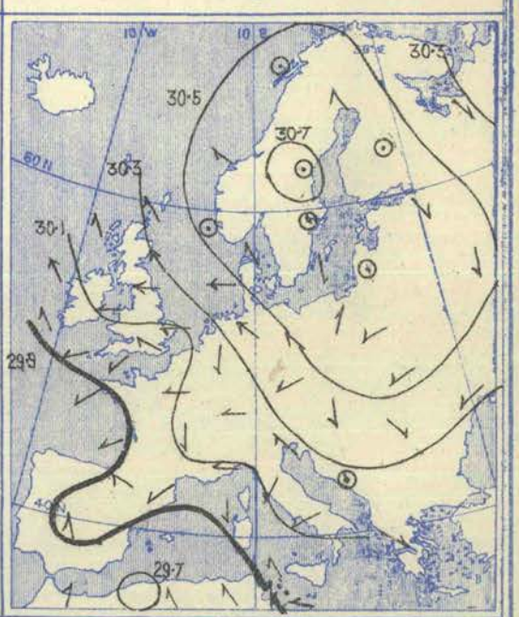
Temperature fallen over western and northern Europe generally, but risen elsewhere. Morning readings highest, 54° at Oran and Algiers, 52° at Nemours, and 47° at La Calle; above 40° at most of the Mediterranean and Spanish coast stations, and just reaching that point on the north coasts of Scotland and at Bodö. Lowest, 1° at Munich, 8° at Swinemunde, 9° at Belfort, and 11° at Berlin and Münster; considerably below the freezing point over the whole of central Europe, and a few degrees below it over the greater part of England. Daily maxima below 32° at several of our own central and southern stations, and below 40° on all but our extreme south-western, western, and northern coasts.

Barometer and Wind.

8 a.m.



6 p.m.

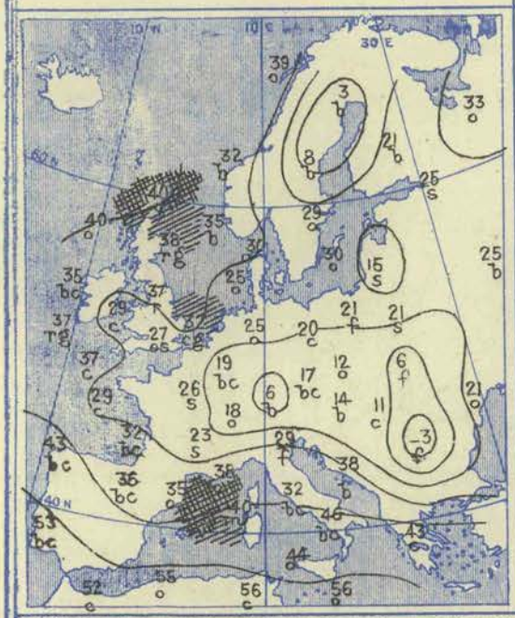


Wind Easterly over England, France, Spain, and the whole of central Europe; light or moderate in force generally, but strong on the east coasts of England. South-Easterly in Ireland and Scotland, and also on the west coasts of Norway. Calm or light from the North-Westward over Sweden and northern Russia. North-Easterly in the south of Russia; variable in Austria; Northerly (North-Easterly to North-Westerly) in Italy. No important change occurring during day.

Barometer highest, 30·6 ins. and upwards over the Baltic and the greater part of Scandinavia; 30·1 ins. and upwards in an anticyclone covering all but the south-western and extreme southern parts of Europe. Lowest, 29·7 ins. and less in a depression over Morocco; 29·9 ins. and less in a small shallow disturbance near Rochefort. No important change occurring during day.

Tuesday, 8th January.

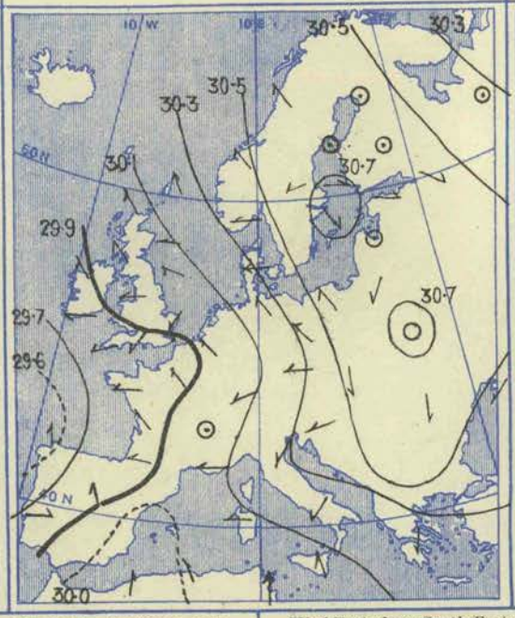
Temperature and Weather. 8 a.m.

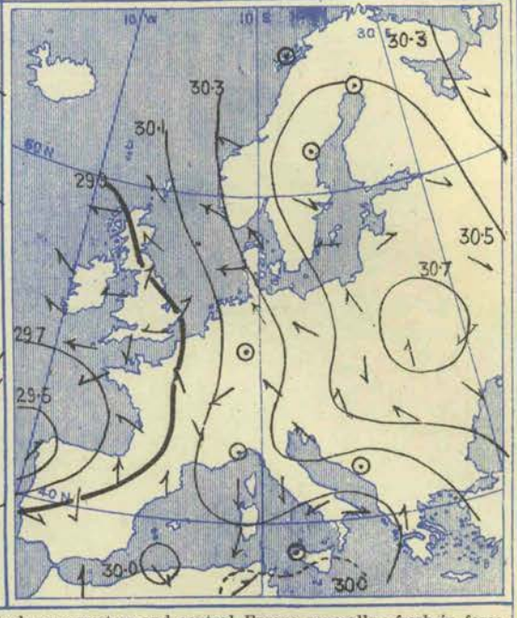


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with snow in the south of England and the northern and central parts of France, as well as over the Gulf of Finland. Rain falling on the north-east coasts of Great Britain, and also at Valencia (Ireland). Fine in many parts of Spain, Italy, and south Germany, and also in the west of Norway and the Gulf of Bothnia. Snow falling later over nearly the whole of England and the east of Ireland, and rain over the Spanish Peninsula and the extreme south of France.

Temperature risen in all the more central and southern parts of the Continent, but fallen elsewhere. Morning readings highest, 56° at La Calle and Malta, 55° at Algiers, and 54° at Nemours and Tunis; above 40° at most of the Mediterranean and Adriatic stations. Lowest, (1) −3° Fahr. at Hermanstadt, +6° at Lemberg, and 11° at Buda-Pesth; (2) 3° at Haparanda, and 8° at Hernösand; lowest in our Islands, 25° at Bath, 27° in London, and 28° at Oxford. Remaining below the freezing point all day in many parts of England; hard frost occurring at night over the central parts of England and Ireland.

Barometer and Wind. 8 a.m. 6 p.m.



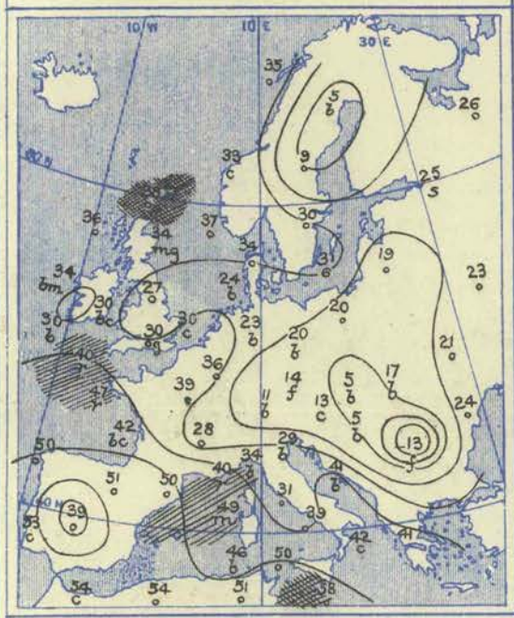


Wind Easterly or South-Easterly over western and central Europe generally; fresh in force on many parts of our own coasts, and blowing a moderate gale at Wick. Calm or variable over the northern parts of Russia and Scandinavia. Light from the Northward over Austria, Italy, Greece, and the south of Russia. Southerly or South-Westerly in the western parts of the Spanish Peninsula. Subsequently increasing to a strong breeze from the South-Eastward on the eastern shores of the North Sea; no important change occurring elsewhere.

Barometer highest, 30·7 ins. and upwards in the south of Sweden; 30·3 ins. and upwards in an anticyclone lying over the whole of northern, eastern, and central Europe. Lowest, 29·6 ins. and less in a depression off the north-west of Spain; depression subsequently moving slowly north-eastwards, and barometer falling over western Europe generally.

Wednesday, 9th January.

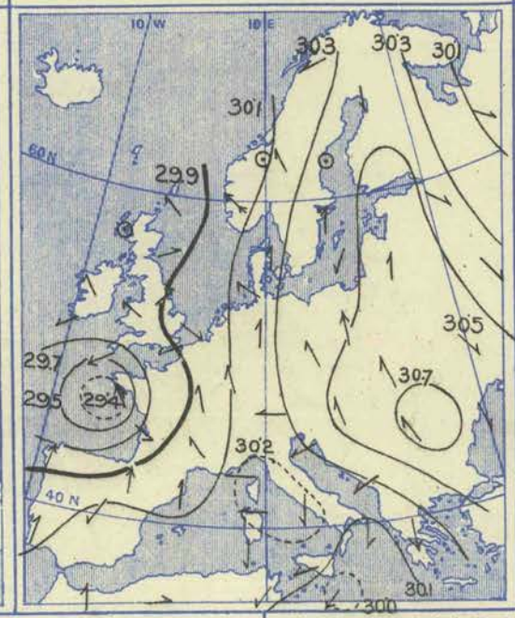
Temperature and Weather. 8 a.m.

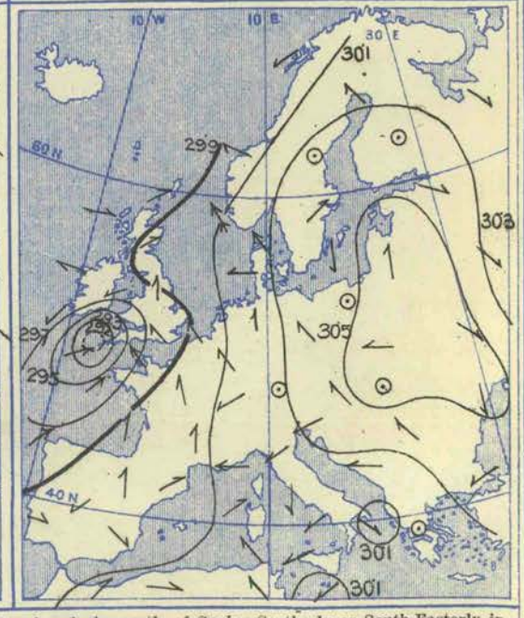


Weather in morning fine in Ireland and the north-west of England, but dull over our Islands generally, with snow in some parts of our southern counties, and with rain at the mouth of the Channel. Cloudy or dull over the greater part of the Continent, with snow in the south of Sweden and at St. Petersburg; fine in the west of France, and also in some parts of Denmark, Germany, and Austria. Snow or sleet falling later in many parts of the United Kingdom, and heavy rain at Scilly. Considerable quantities of rain falling at some of the Spanish and southern French stations, and lightning seen at Biarritz.

Temperature risen decidedly over France, Holland, western Germany, and the extreme south of England. Morning readings highest, 58° at Malta, 54° at several of the Algerian stations, and 53° at Lisbon, above 45° at most of the Mediterranean, and Spanish coast stations. Lowest, (1) −13° Fahr. at Hermanstadt, and + 5° at Buda-Pesth, and Cracow; (2) 5° at Haparanda, and 9° at Hernösand; considerably below the freezing point over northern, eastern, and central Europe generally. Considerable rise taking place later in the south of England, but weather remaining very cold in our northern and central districts.

Barometer and Wind. 8 a.m. 6 p.m.



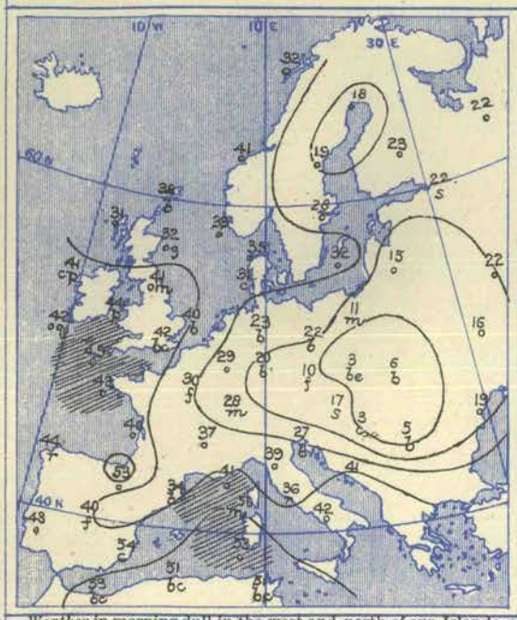


Wind South-Westerly in Portugal and the north of Spain; Southerly or South-Easterly in France; North-Easterly in the southern parts of the United Kingdom; strong to a gale from between South-East and North-East at the mouth of the English Channel. South-Easterly in the northern parts of Ireland and England; variable in Scotland. South-Easterly in Scandinavia, Denmark, Germany, and Austria; Northerly or North-Easterly in Greece and Italy. Subsequently increasing to a gale from the North-Eastward at the mouths of the English and Bristol Channels; but shifting later to South-West, and subsiding.

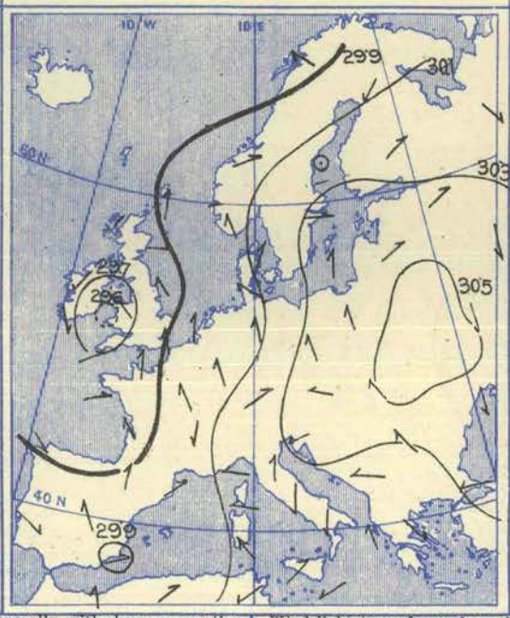
Barometer highest, 30·7 ins. and upwards over eastern Austria, 30·2 ins. and upwards in an anticyclone covering nearly the whole of northern, eastern, and central Europe. Lowest, 29·4 ins. and less in a depression lying off the mouth of the English Channel. Depression subsequently moving slowly northwards and growing much deeper; barometer at Scilly falling at 3 p.m. to a minimum of 28·90 ins.

Thursday, 10th January.

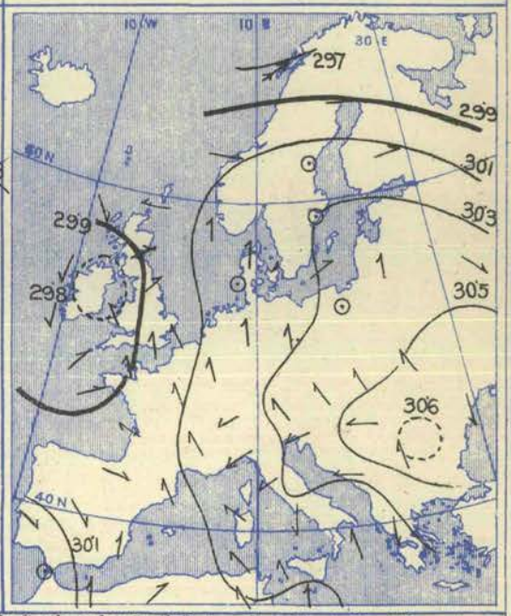
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the west and north of our Islands generally, with showers over the north of Ireland and the Irish Sea; fine in the north of Scotland and the south and east of England, as well as in the Netherlands, Germany, and the northern parts of France. Cloudy or dull over the Continent as a whole, with rain at Corunna and Rome, and snow over the Gulf of Finland. Rain falling later in the western parts of our Islands generally and also in Spain—as much as 1·3 ins. at San Fernando.

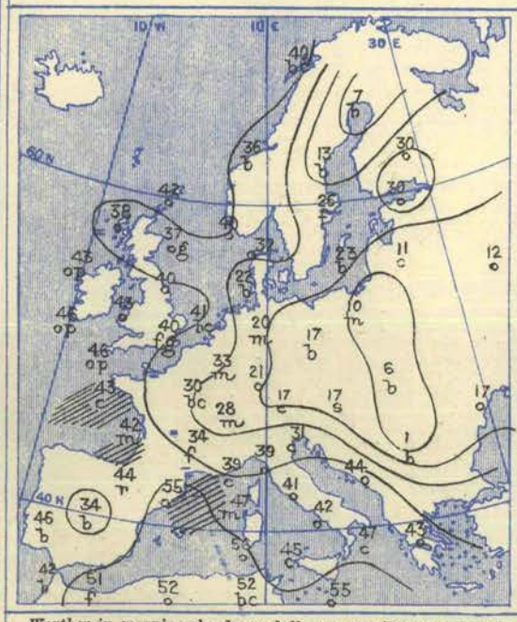
Temperature risen considerably over England and Ireland, and also over the Gulf of Bothnia, fallen elsewhere. Morning readings highest, 56° at Malta, 54° at Alicante, and 53° at Cagliari and Oran; above 45° at most of the Mediterranean and Spanish coast stations as well as in the central parts of the English Channel. Lowest, 3° at Cracow and Vienna, 5° at Hermanstadt, 6° at Lemberg, and 10° at Prague; considerably below the freezing point over eastern and central Europe generally, and slightly below it over central Scotland. Rising during day to 45° and upwards over nearly the whole of England and Ireland, and to 51° in London; exceeding 55° at several of the Mediterranean stations, and reaching 61° at Barcelona.

Wind light to moderate from the Southward or South-Eastward over England and the western and central parts of the Continent generally; variable in Scotland; distinct cyclonic circulation shown over Ireland and the neighbouring channels. Variable in the north of Scandinavia; light from the South-Westward in Finland. Variable in Italy and Austria; Westerly or North-Westerly on the coasts of the Spanish Peninsula. No important change occurring later, but increasing to a moderate gale from the South-Eastward over the Irish Sea.

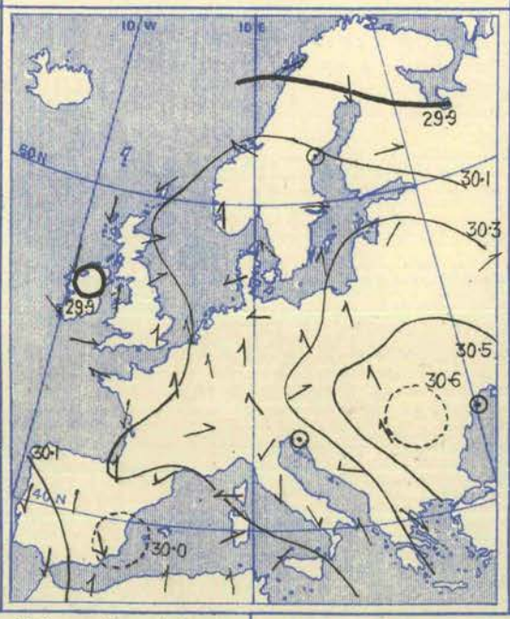
Barometer highest, 30·5 ins. and upwards over Austria and western Russia; 30·1 ins. and upwards in an anticyclone covering all the more eastern parts of the Continent. Lowest, 29·6 ins. and less in a depression with its centre over the south-east of Ireland, 29·9 ins. and less in a shallow secondary system over the Bay of Biscay—western depression subsequently moving northwards but gradually filling up; barometer rising over western Europe generally.

Friday, 11th January.

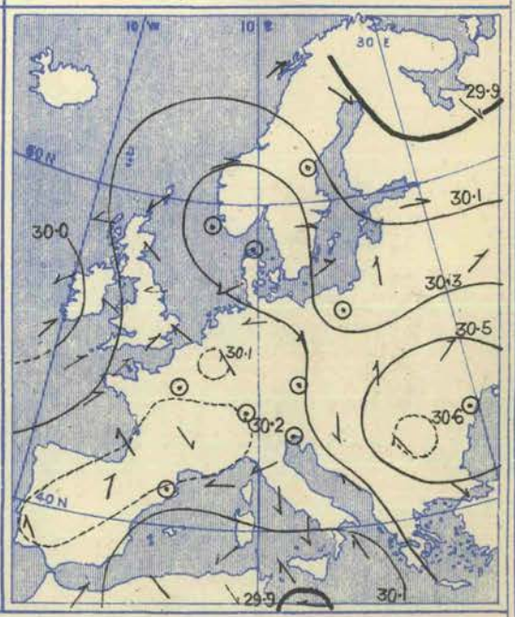
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over our Islands generally, with fog over the central parts of Great Britain, and with showers in Ireland and the south-west of England. Fine in Scandinavia, Denmark and north Germany as well as in the Spanish Peninsula; cloudy in other parts of the Continent, with rain in the south of France and with snow at Vienna and Buda-Pesth. Rain falling later in the west and north of our Islands generally; lightning seen at Aberdeen at night.

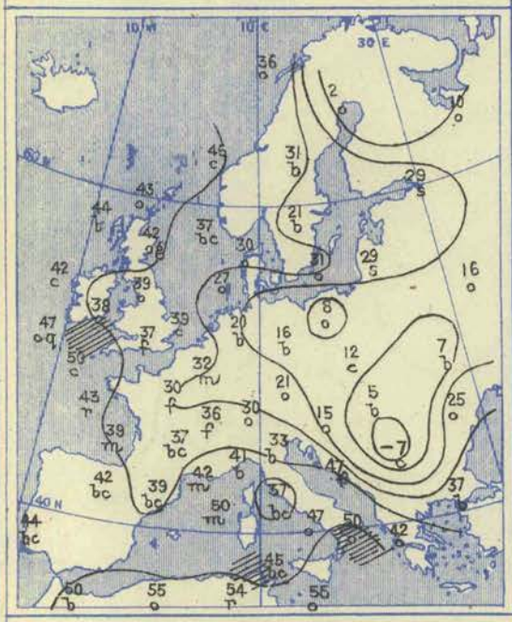
Temperature risen in Ireland and Scotland; fallen in Sweden; changed irregularly elsewhere. Morning readings highest, 55° at Barcelona and Malta, above 45° at most of the Mediterranean and Spanish coast stations as well as on some parts of our own west and south-west coasts. Lowest, 1° at Hermanstadt, 3° at Cracow, 6° at Lemberg and 10° at Neufahrwasser and Memel, considerably below the freezing point over eastern and central Europe and very little above it in the north of Scotland. Rising during day to 45° and upwards in many parts of the United Kingdom to 50° at Scilly and to 52° at Jersey; exceeding 55° at several of the Mediterranean stations and reaching 61° at Cagliari and Palermo.

Wind light from the Southward and South-Eastward over England and the western parts of the Continent, but showing a distinct cyclonic circulation over Ireland; Northerly (North-Easterly to North-Westerly) in the north of Scotland, Westerly and North-Westerly over northern and central Russia; variable over Austria and Italy. No important change occurring during day.

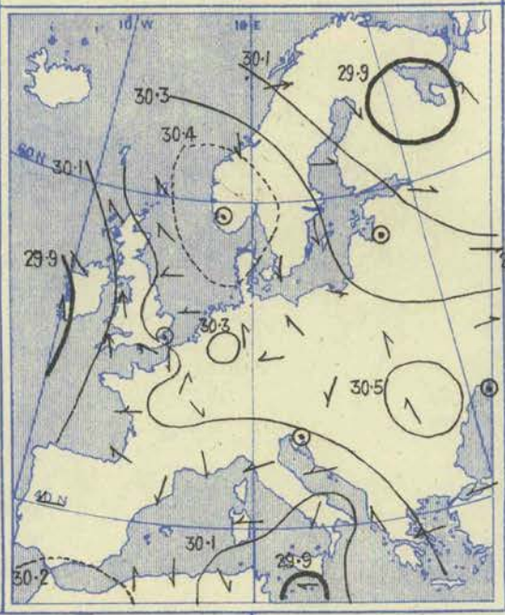
Barometer highest, 30·6 ins. and upwards over eastern Austria; 30·2 ins. and upwards in an anticyclone covering the whole of eastern and central Europe. Lowest, 29·9 ins. and less in a shallow depression with its centre near Sligo, depression subsequently moving away in a south-westerly direction over the Atlantic; anticyclone spreading over our own northern districts.

Saturday, 12th January.

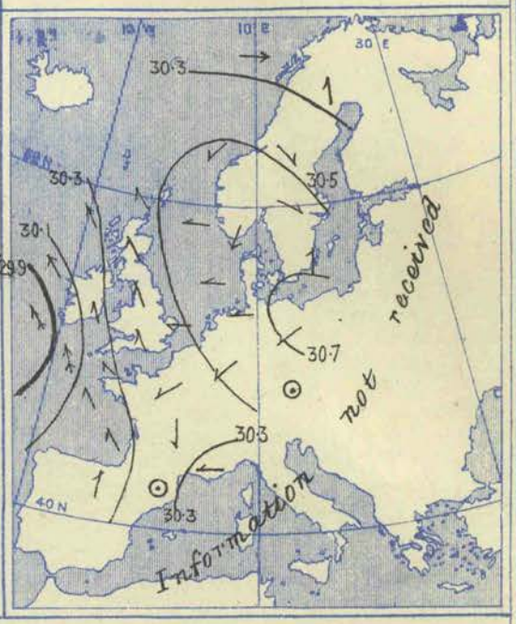
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy or showery in the south of Ireland. Fine in most other parts of the United Kingdom but very foggy over our Midland and south-eastern counties. Fine in the western and northern parts of the Continent, but foggy in places; dull in most of the eastern and central countries, with rain at Lesina and snow at St. Petersburg, Riga and Buda Pesth. Rain falling later in the western parts of our islands generally—heavily in the south of Ireland.

Temperature fallen in England as well as at most of the Scandinavian stations, but risen elsewhere. Morning readings highest, (1) 55° at Algiers and Malta, 54° at La Calle and 51° at Tunis; (2) 50° at Scilly and above 45° on our south-west coasts generally. Lowest, −7° Fahr. at Hermanstadt, +5° at Lemberg, 7° at Kiev and 9° at Cracow; considerably below the freezing point over eastern and central Europe generally. Daily maxima below 45° at most of our own eastern and central stations, but thermometer exceeding that point on our western coasts and reaching 52° at Valencia and Scilly.

Wind moderate to fresh from the Southward or South-Eastward on our western and northern coasts, but light from the eastward over England and the neighbouring parts of the Continent. Westerly or North-Westerly over Russia and Scandinavia; variable in Germany and Austria; Easterly or North-Easterly over Italy and the Spanish Peninsula. Subsequently increasing to a gale from the South-Eastward on our own extreme south-west coasts, no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over eastern Austria; 30·3 ins. and upwards in an anticyclone covering nearly the whole of northern, eastern and central Europe and extending over the most eastern parts of Great Britain. Lowest, 29·9 ins. and less in three depressions—one lying off the south-west of Ireland, another over the White Sea and the third near Malta. Irish depression subsequently advancing eastwards and barometer falling on all our south-west coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the whole of this week a large anticyclone lay over the greater part of northern, eastern and central Europe, its central area being found at times over western and central Russia, and at other times over the southern parts of Scandinavia. The weather in those regions was therefore mostly fair, but with a good deal of cloud and fog in places, and temperature was very low, the readings being in many cases little above and in some instances below zero. Over southern Europe and the Mediterranean the weather was affected by large shallow depressions over Spain and Algeria, these disturbances causing rain in many places, and very strong Easterly winds in the extreme south of France.

In the early part of the week the western edge of the anticyclone extended over all the more northern and eastern parts of the United Kingdom, and the Easterly winds which prevailed so generally over western and central Europe, brought sharp frost to England, and later on to Ireland and Scotland. The weather in these Islands was at first fine and bright, but later on, when some local irregularities in pressure appeared over France and the Bay of Biscay, snow spread from the southward over nearly the whole of England. On Wednesday the centre of a well-marked depression of increasing depth advanced from the south-westward to the mouth of the Channel, the barometer at Scilly falling at 3 p.m. to a minimum of 28·9 ins. Gales of a peculiarly local character now sprang up on our south-west coasts, and heavy rain fell in Cornwall, while snow was reported in many parts of England and Ireland. On Thursday and Friday the disturbance moved northwards across Ireland and then westwards to the Atlantic and gradually filled up, a mild Southerly wind now setting in over all the western and southern parts of the United Kingdom and causing a complete disappearance of the frost. At the close of the week the Continental anticyclone was again spreading over Great Britain, and colder weather therefore set in, with fog in many parts of England. A new disturbance was, however, advancing towards the south of Ireland, and the wind on our extreme south-west coasts was increasing very considerably from the South-Eastward, with heavy rain in places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	1·3	?	3	?	BRIGHTON	15·9	+ 4·9	28	+ 8
STRATHPEFFER SPA	6·0	− 1·0	13	− 2	WORTHING	15·7	?	28	?
EDINBURGH	3·2	− 3·0	6	− 7	BOGNOR	13·2*	?	24*	?
MORPETH	0·0	?	0	?	WATERGATE (Emsworth)	14·9	?	27	?
NEWCASTLE-ON-TYNE	0·3	?	1	?	WESTBOURNE (Emsworth)	13·6*	+ 1·4	24*	+ 3
OSWALDKIRK (Yorkshire)					VENTNOR HOSPITAL	14·7	?	26	?
LOWESTOFT	10·4	?	19	?	SOUTHPORT	8·7	?	16	?
HOLLESLEY BAY	12·0	?	22	?	RHYL	19·7*	?	36*	?
SHEFFIELD	2·8	?	5	?	COLWYN BAY	22·7	?	42	?
WORKSOP	5·7	− 2·1	11	− 3	ABERDOVEY	19·6*	?	36*	?
THURCASTON (Leicestershire)	10·1	+ 1·8	19	+ 3	TENBY				
MARGATE	8·2	− 2·1	15	− 3	NEWQUAY	18·4	+ 6·9	32	+12
BROADSTAIRS	9·2	?	16	?	TORQUAY	14·9	+ 2·1	26	+ 4
EASTBOURNE					GUERNSEY	10·4*	− 0·7	18*	− 1

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 3.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 19TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 14.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	30	47·4	38·8	43·3	6 above	23	+17	9	−28	28	+10	71	−35
	1. SCOTLAND, EAST	52	24	44·3	33·6	39·1	2 above	6	− 1	32	−11	7	−13	114	−11
	2. ENGLAND, N.E.	49	25	43·6	34·8	39·3	2 above	4	− 3	27	−11	5	−17	98	−13
	3. ENGLAND, EAST	50	26	44·4	35·7	40·2	3 above	7	0	25	−17	7	−15	108	−14
	4. MIDLAND COUNTIES	50	19	44·0	32·9	38·7	1 above	6	− 3	35	− 9	6	−22	138	+12
	5. ENGLAND, SOUTH	51	30	46·4	37·7	42·3	3 above	20	+ 9	12	−22	25	− 9	93	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	22	45·7	37·1	41·5	2 above	10	0	20	−11	19	−12	74	−16
	7. ENGLAND, N.W.	53	28	45·2	35·0	40·3	1 above	9	0	28	− 3	14	−15	99	+11
	8. ENGLAND, S.W.	54	31	47·9	38·9	43·6	3 above	24	+ 9	9	−15	33	−13	80	+12
	9. IRELAND, NORTH	54	34	47·4	39·7	43·7	4 above	22	+ 9	6	−21	40	0	51	−26
	10. IRELAND, SOUTH	55	35	49·4	43·0	46·3	4 above	30	+10	0	−21	55	− 6	42	−19
	—CHANNEL ISLANDS—	54	34	49·9	42·8	46·5	2 above	32	+ 9	0	−11	84	+13	30	+ 1

Rainfall.

	DISTRICTS. (See p. 14.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	5	7 less	10	− 5	1·4	− 2·4
	1. SCOTLAND, EAST	3	4	2 less	10	− 1	1·2	− 0·7
	2. ENGLAND, N.E.	3	3	1 less	9	− 2	1·6	+ 0·3
	3. ENGLAND, EAST	4	2	2 less	9	− 3	1·4	+ 0·1
	4. MIDLAND COUNTIES	4	5	1 less	12	+ 1	2·6	+ 1·0
	5. ENGLAND, SOUTH	4	6	0 (average)	11	0	2·0	+ 0·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	12	1 less	12	− 2	2·1	− 1·9
	7. ENGLAND, N.W.	4	7	0 (average)	11	− 1	1·3	− 0·9
	8. ENGLAND, S.W.	5	11	2 more	12	− 1	3·0	+ 0·1
	9. IRELAND, NORTH	5	6	2 less	13	− 1	1·5	− 0·8
	10. IRELAND, SOUTH	6	15	6 more	13	− 1	2·9	0·0
	— CHANNEL ISLANDS—	5	8	0 (average)	12	− 1	2·4	0·0

Bright Sunshine.

	DISTRICTS. (See p. 14.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	8	+ 2	17	+ 5	19	+ 2	13	+ 1
	1. SCOTLAND, EAST	8	− 2	15	− 3	15	−10	10	− 6
	2. ENGLAND, N.E.	5	0	8	0	7	−18	6	−12
	3. ENGLAND, EAST	13	0	22	0	33	− 5	16	− 3
	4. MIDLAND COUNTIES	6	− 3	11	− 5	20	− 7	14	− 3
	5. ENGLAND, SOUTH	13	+ 1	23	+ 2	41	+ 5	22	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	− 3	11	− 4	18	− 6	12	− 3
	7. ENGLAND, N.W.	8	− 3	15	− 5	32	+ 1	16	0
	8. ENGLAND, S.W.	8	− 4	14	− 8	39*	+ 6	25	+ 4
	9. IRELAND, NORTH	15	+ 5	26	+ 7	43	+15	27	+10
	10. IRELAND, SOUTH	14	+ 2	25	+ 3	39	+ 3	24	+ 2
	— CHANNEL ISLANDS—	16	+ 5	26	+ 8	52	+13	30	+ 7

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was generally fair and dry during the earlier half of the week, except in the west of Ireland, but later on the unsettled rainy conditions spread to all parts of our Islands. Thunder and lightning were experienced in the north-west of Ireland on the 17th.

Temperature was above the mean in all districts, the excess ranging from 1° in the Midland Counties and England N.W. to 4° in Ireland and to 6° in Scotland N. The highest of the maxima were registered on rather irregular dates, and ranged from 58° in Scotland N. and 55° in Ireland S. to 49° in England N.E. The lowest of the minima were recorded during the middle of the week, and ranged from 19° in the Midland Counties, 22° in Scotland W., and 26° in England E., to 34° in Ireland N. and the Channel Islands and 35° in Ireland S.

Rainfall was rather more than the average in England S.W. and considerably more in Ireland S. In all other districts, however, it was either just equal to or less than the normal. In Scotland N. the deficit was large.

Bright Sunshine exceeded the mean amount over Ireland, the south of England and the Channel Islands, and also in Scotland N. In most other districts there was a deficiency. The percentage of the possible duration ranged from 26 in Ireland N. and the Channel Islands, 25 in Ireland S., and 23 in England S., to 14 in England S.W., 11 in the Midland Counties and Scotland W., and to 8 in England N.E.

Barometer and Wind.—During the greater part of the week pressure was highest over the eastern part of our area, and depressions lay off the west of Ireland. The resulting gradients were mostly moderate, but were occasionally steep in Ireland and Scotland, where the Southerly wind increased to a strong breeze or gale. Towards the end of the period pressure gave way generally, and depressions began to skirt the north-western coasts of Scotland and the wind to veer to South-West. By Saturday morning a small and deep depression had advanced rapidly from the south-westward to St. George's Channel, and caused a complete cyclonic circulation of strong winds or gales. The system then travelled east-north-eastwards over England, and at the same time partially filled up, so that the force of the wind decreased and the gales subsided.

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* This value has been altered owing to the receipt of further information for a preceding week.

For errata, see page 18.

II.—DATA from which the SUMMARY on page 13 has been calculated.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head Ⓢ	48	37	45·9	39·6	42·9	+ 3·8	16	7	2	0·12	− 0·75	*	*	*	*
	Stornoway	52	38	47·4	39·4	43·6	+ 4·8	22	7	5	0·80	− 0·30	7·2	+ 0·6	15	+ 1
	Wick Ⓢ	47	38	45·3	39·9	42·7	+ 5·1	14	6	2	0·03	− 0·47	*	*	*	*
	Lairg Ⓢ	50	30	46·3	35·1	40·9	+ 5·9	12	29	2	0·05	− 0·75	*	*	*	*
	Glencarron Ⓢ	58	35	49·2	38·5	44·1	+ 6·9	29	10	4	1·04	− 1·20	*	*	*	*
	Fort Augustus Ⓢ	55	33	49·4	38·7	44·3	+ 6·2	30	9	4	0·32	− 0·76	9·8	+ 6·1	19	+12
	Fort William Ⓢ	52	35	48·3	40·3	44·5	+ 5·8	25	5	5	1·27	− 0·97	6·7	+ 1·1	13	+ 2
1. SCOTLAND, E.	Nairn	52	28	48·4	33·6	41·3	+ 4·0	18	36	0	—	− 0·45	*	*	*	*
	Aberdeen	47	36	44·1	39·3	41·8	+ 4·2	6	12	3	0·42	− 0·11	6·3	− 5·5	12	−11
	Braemar Ⓢ	47	25	41·8	32·9	37·5	+ 3·3	0	32	3	0·56	− 0·12	*	*	*	*
	Ochtertyre Ⓢ	47	24	42·1	31·0	36·8	0·0	0	40	6	0·61	− 0·45	*	*	*	*
	Leith	50	28	47·3	34·6	41·2	+ 2·3	15	31	2	0·47	+ 0·07	*	*	*	*
	Marchmont Ⓢ	45	25	41·9	29·9	36·1	− 0·3	0	41	4	0·45	− 0·15	10·5	+ 1·0	20	+ 2
2. ENGLAND, N.E.	Alnwick Castle	48	29	44·0	32·4	38·4	+ 0·7	6	36	3	0·40	− 0·10	*	*	*	*
	Durham	44	25	40·3	32·8	36·7	− 0·2	0	37	3	0·21	− 0·23	5·3	− 5·0	10	− 9
	Shields	46	30	43·1	34·6	39·0	+ 0·5	3	28	2	0·16	− 0·24	*	*	*	*
	Scarborough Ⓜ	48	34	44·5	36·4	40·6	+ 2·4	7	22	2	0·24	− 0·22	3·5	?	6	?
	Spurn Head	49	36	46·3	38·7	42·7	+ 4·6	19	9	3	0·35	+ 0·05	*	*	*	*
	Fulbeck (Lincolnshire)	47	28	43·3	33·6	38·6	+ 2·4	4	32	4	0·41	+ 0·02	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	48	29	44·5	36·2	40·5	+ 3·6	7	23	4	0·39	− 0·06	13·0	+ 2·5	23	+ 5
	Yarmouth	45	36	43·1	37·1	40·2	+ 2·8	3	19	2	0·08	− 0·37	*	*	*	*
	Geldeston	50	31	44·9	34·7	40·0	+ 2·1	8	29	4	0·11	− 0·25	11·9	+ 0·1	21	0
	Cambridge	49	27	46·1	34·7	40·6	+ 3·2	11	30	4	0·14	− 0·21	10·6	− 0·4	19	0
	Felixstowe	46	38	43·2	38·5	40·9	+ 2·7	3	13	4	0·12	?	15·8†	?†	28†	?†
	Rothamsted	48	26	44·5	33·1	39·0	+ 1·9	7	34	5	0·35	− 0·19	10·2	0·0	18	0
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	19	42·3	30·1	36·4	− 0·9	1	43	4	0·37	− 0·03	*	*	*	*
	Loughborough	50	24	45·3	32·3	39·1	+ 1·4	9	38	3	0·30	− 0·15	*	*	*	*
	Colly Weston (Stamford)	47	26	43·3	33·6	38·6	+ 1·4	4	31	6	0·44	?	*	*	*	*
	Cheadle Ⓜ	45	27	41·6	31·7	36·9	+ 0·4	0	36	4	0·61	+ 0·01	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	47	28	43·6	35·0	39·5	+ 1·6	4	27	3	0·53	+ 0·05	6·4	?	11	?
	Churchstoke Ⓜ	46	29	43·0	33·6	38·5	+ 0·9	3	32	3	0·61	− 0·01	8·8	− 1·7	16	− 3
	Hereford (Belmont) Ⓜ	49	25	45·8	31·6	39·0	+ 0·6	11	41	5	0·67	+ 0·11	*	*	*	*
	Cirencester	48	27	45·0	34·3	39·9	+ 2·5	8	31	5	0·46	− 0·19	4·9	− 5·9	9	−10
	Oxford	49	25	45·9	33·6	40·0	+ 1·8	11	34	4	0·40	− 0·05	6·3	− 4·2	11	− 8
5. ENGLAND, S.	London	49	30	46·7	34·1	40·7	+ 1·9	13	33	3	0·20	− 0·24	4·0†	− 1·5†	7†	− 8†
	Swarraton (Alresford) Ⓜ	49	30	46·0	34·7	40·6	+ 3·1	11	30	5	0·82	+ 0.12	*	*	*	*
	Dungeness	50	34	46·3	38·4	42·5	+ 3·3	19	10	2	0·15	− 0·27	14·0	?	24	?
	Hastings (St. Leonards)	49	35	45·4	39·1	42·4	+ 2·9	15	8	3	0·14	− 0·48	14·9	+ 1·4	26	+ 3
	Southampton	50	33	47·4	38·6	43·2	+ 3·3	23	10	5	0·91	+ 0·21	8·9	− 2·3	15	− 4
	Portland Bill	51	40	48·0	42·1	45·2	+ 3·7	22	0	5	0·73	?	*	*	*	*
	Shaftesbury Ⓜ	49	34	45·0	37·2	41·3	+ 4·0	8	20	6	1·04	+ 0·36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	36	48·2	41·8	45·1	+ 5·1	23	1	4	1·20	− 0·64	*	*	*	*
	Glasgow	47	33	43·5	36·7	40·2	+ 1·8	4	20	4	0·54	− 0·32	2·4	− 3·1	5	− 5
	Glenlee Ⓢ	49	22	44·2	32·3	38·5	+ 1·1	6	37	5	1·49	− 0·09	*	*	*	*
	Douglas (Isle of Man)	49	33	46·7	37·5	42·3	+ 1·7	21	13	4	1·65	+ 0·68	9·1	− 2·3	17	− 3
7. ENGLAND, N.W.	Newton Reigny	45	30	44·1	33·3	38·9	+ 3·3	6	33	4	0·72	?	10·3	?	19	?
	Stonyhurst	47	29	42·9	34·5	38·9	+ 1·1	3	28	4	0·77	− 0·15	3·5	− 4·3	6	− 8
	Blackpool Ⓜ	47	30	44·2	32·2	38·4	+ 0·2	6	37	4	0·53	− 0·13	2·7	− 5·4	5	−10
	Manchester (Prestwich)	46	28	44·6	33·5	39·3	+ 1·3	7	33	3	0·78	+ 0·08	3·6	?	6	?
	Liverpool Obsy. (Bidston)	46	31	43·0	34·0	38·7	− 0·4	3	30	3	0·57	+ 0·07	7·3	?	13	
	Llandudno Ⓜ	53	33	49·0	37·8	43·6	+ 2·3	29	12	5	0·63	+ 0·01	12·6	+ 2·1	23	+ 4
	Holyhead	52	35	48·4	39·6	44·2	+ 2·3	25	7	5	0·93	+ 0·20	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	34	47·1	37·6	42·5	+ 4·5	22	12	5	0·72	− 0·42	*	*	*	*
	Pembroke	49	38	47·6	42·0	44·9	+ 2·4	20	0	5	1·62	+ 0·78	3·0	− 9·2	5	−16
	Clifton	51	34	46·8	37·1	42·1	+ 2·5	21	14	4	0·51	− 0·24	*	*	*	*
	Bath	52	32	47·6	37·1	42·6	+ 2·5	25	14	4	0·65	?	9·6	?	17	
	Arlington (N. Devon)	50	34	46·6	36·7	41·9	+ 1·7	13	24	5	0·82	− 0·29	*	*	*	*
	Cullompton Ⓜ	53	31	47·9	38·3	43·3	+ 3·4	25	10	5	1·54	+ 0·79	6·4	− 3·6	11	− 6
	Falmouth	54	38	49·7	43·7	46·8	+ 3·4	34	0	5	1·88	+ 0·72	10·9	− 2·1	18	− 4
	Plymouth	52	36	49·6	39·0	44·5	+ 2·5	30	8	5	1·31	+ 0·44	9·7	− 1·7	16	− 3
9. IRELAND, N.	Malin Head	50	36	46·9	39·4	43·3	+ 1·9	20	7	4	0·15	?	*	*	*	*
	Londonderry	50	35	47·7	38·8	43·4	+ 3·4	23	9	4	0·30	− 0·56	*	*	*	*
	Edenfel (Omagh)	49	34	46·1	38·1	42·3	+ 4·6	18	11	4	0·67	− 0·10	4	*	*	*
	Blacksod Point	54	37	49·6	42·0	46·0	+ 3·3	28	0	6	1·08	?	*	*	*	*
	Markree Castle	50	35	47·6	39·4	43·7	+ 4·3	23	7	6	0·64	− 0·19	13·5	+ 4·8	25	+ 7
	Armagh	49	36	46·8	39·5	43·2	+ 4·4	20	7	5	0·70	+ 0·10	15·6	+ 5·1	28	+ 9
	Donaghadee	49	38	47·1	40·7	44·0	+ 3·5	19	4	4	0·61	− 0·01	*	*	*	*
10. IRELAND, S.	Dublin	51	38	49·1	41·8	45·6	+ 4·0	26	1	5	0·53	+ 0·04	16·1	+ 2·9	29	+ 5
	Parsonstown	52	37	48·7	41·4	45·2	+ 5·6	25	2	6	0·75	+ 0·09	14·3	+ 2·6	26	+ 5
	Kilkenny	51	35	48·1	41·4	44·9	+ 4·1	23	2	6	1·35	+ 0·60	*	*	*	*
	Roche's Point	51	40	49·0	44·3	46·7	+ 3·3	33	0	7	2·46	+ 1·31	*	*	*	*
	Valencia	55	41	51·7	46·4	49·2	+ 4·6	50	0	6	2·71	+ 1·33	11·9	− 0·3	21	− 1
	Killarney												*	*	*	*
	Foynes	52	39	49·5	42·5	46·1	+ 4·7	29	0	6	1·09	+ 0·29	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	46	52·3	46·9	49·7	+ 3·9	54	0	4	1·21	+ 0·41	11·9	?	20	?
	Jersey	52	34	47·4	38·6	43·2	+ 0·8	23	10	5	0·30	− 0·40	20·1	+ 4·9	34	+ 9

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

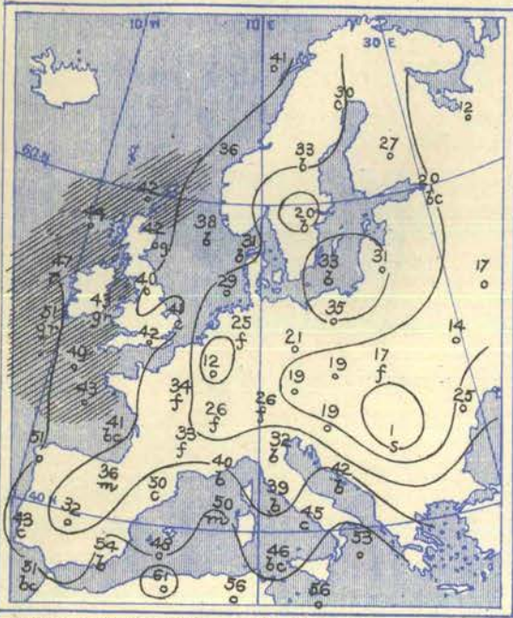
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

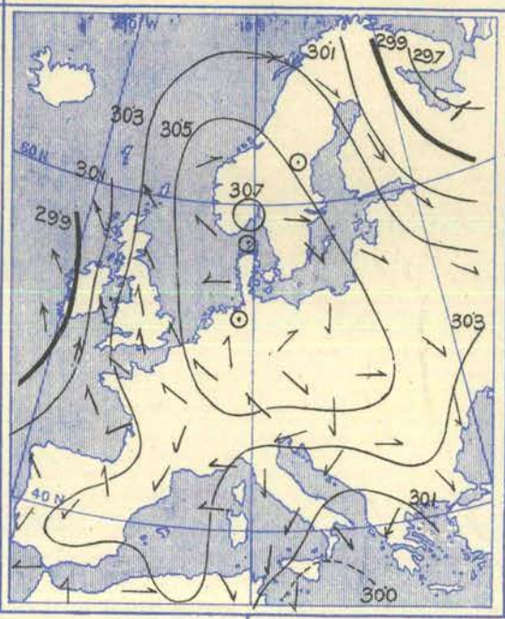
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 13th January.

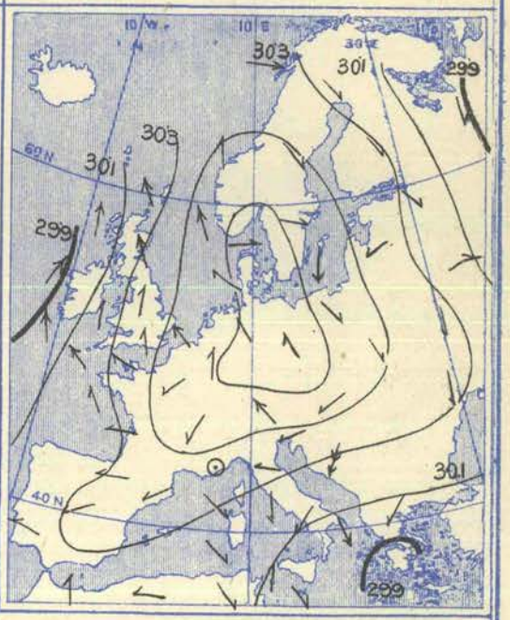
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m



Weather in morning dull in our Islands and the central parts of the Continent, with fog or mist in several places, and with rain at most of the Irish stations; snow reported at Hermanstadt. Fine in most other parts of Europe. Rain falling later in the west and extreme north of our Islands generally.

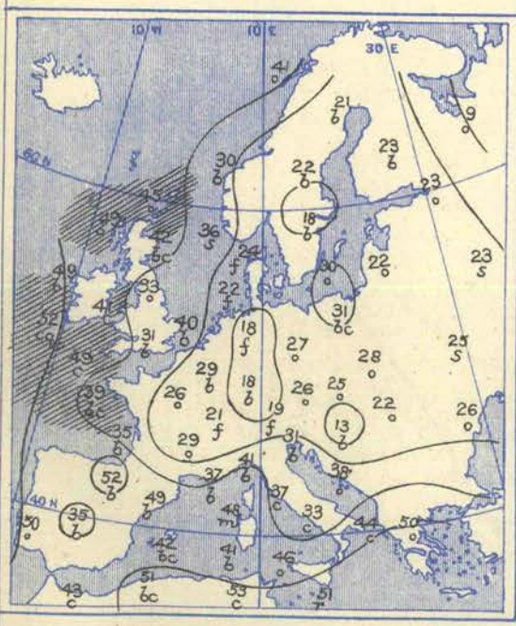
Temperature risen in most parts of north-western and northern Europe, but fallen elsewhere. Morning readings highest, (1) 61° at Algiers, 56° at La Calle and Malta, and 54° at Alicante; (2) 51° at Valencia (Ireland), above 45° over Ireland and the extreme south-west of England generally. Lowest, 1° at Hermanstadt, 12° at Archangel and Munster, and 14° at Kiev and Karlstad; below the freezing point over eastern and central Europe generally, and very little above it in central Scotland. Rising during day to 50° and upwards at several of our western stations, and to 54° at Blacksod Point; exceeding 55° in many parts of southern Europe, and reaching 63° at Cagliari.

Wind light to moderate from the Eastward or North-Eastward over central and southern Europe; South-Easterly or Southerly in our islands, and strong in force on many parts of our western and extreme northern coasts. Westerly or North-Westerly over Sweden, Russia, and Austria. Subsequently increasing to a gale from the Southward or South-Eastward on many parts of our extreme south-western, western, and northern coasts; no important change occurring elsewhere.

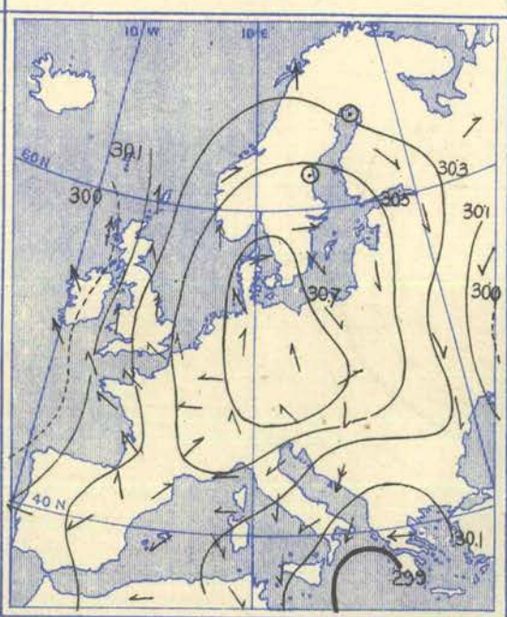
Barometer highest, 30·6 ins. to 30·7 ins. over Denmark, Germany, and the south of Scandinavia; 30·4 ins. and upwards in an anticyclone covering the whole of northern, eastern, and central Europe, and extending over the eastern parts of England. Lowest, 29·8 ins. and less in two depressions, one lying off the west of Ireland, and the other over the White Sea; 30·0 ins. and less in a shallow disturbance over the central parts of the Mediterranean. Depression off our west coasts subsequently moving northwards; continental disturbances both travelling eastwards.

Monday, 14th January.

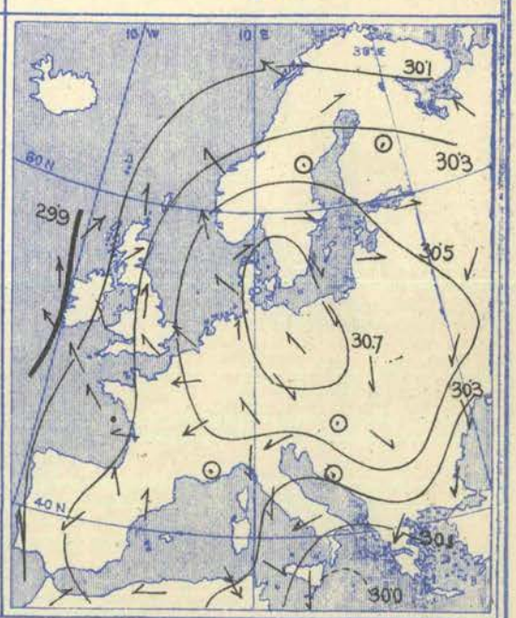
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over central Europe, the Baltic, the North Sea and England, cloudy and squally in the south of Ireland, foggy in some parts of France, dull in Lapland; considerable rain later at Bodö, some at Roches Point and Lisbon, and much fog on the Eastern shores of the North Sea and at Belfort; elsewhere weather fine but rather hazy.

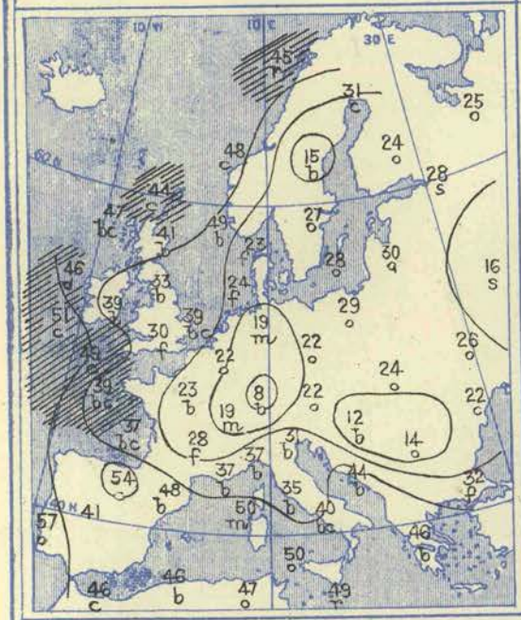
Temperature in morning fallen generally except in Scotland and at Berlin. Morning readings highest, above 50° on the north African coast, the west of the Peninsula, and at Valencia, 49° at Stornoway and Scilly, 47° at Holyhead. Lowest, 9° at Archangel, 18° at Stockholm, and much below the freezing point over the greater part of Russia and central Europe; cold also (below 35°) at Rome and Naples. Rising later to 55° at Valencia and more than 50° on our extreme west and south-west coasts generally to 50° at Leith and 47° in London, but remaining low over the inland parts of the Continent.

Wind (1) light and anticyclonic over central Europe and the south of Sweden; (2) South-Easterly to Southerly over our Islands and very strong at many of our western stations; Southerly in Scotland and on the Norwegian coast; (3) Northerly to North-Easterly over the Adriatic and Italy, Easterly at Patras. Very little change over the United Kingdom later, and shifting only a little over the Mediterranean.

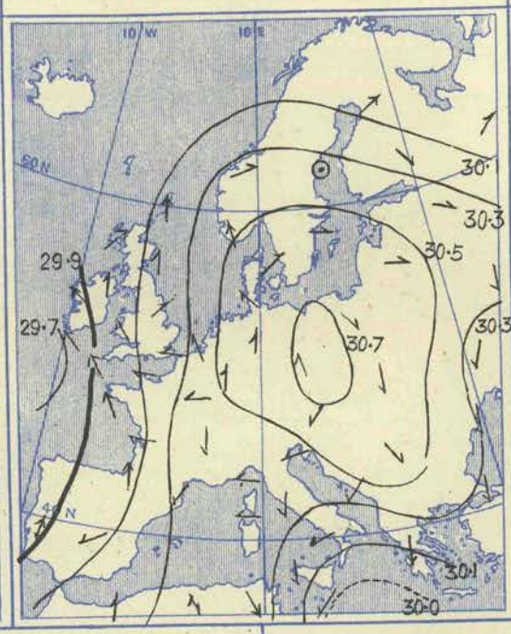
Barometer highest, 30·7 inches and more to 30·5 ins. over all the central parts of Europe, including the southern parts of Scandinavia. Lowest, (1) 29·9 ins. to 30·1 ins. over central Russia; (2) 30·0 ins. and less over the west of Ireland, the Hebrides, and still lower over the Atlantic. Falling later all over western Europe, but no decided change in the relative distribution of pressure.

Tuesday, 15th January.

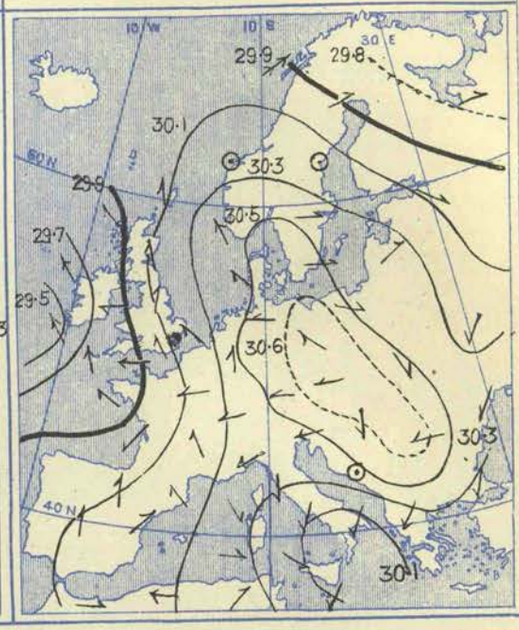
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western and southern Europe, but cloudy or dull over Russia and Germany, with snow at Moscow and St. Petersburg. Fog or mist reported from several of the English and French stations. Considerable falls of rain later in the western parts of our Islands generally. A large amount (1·58 ins.) reported at Bodö.

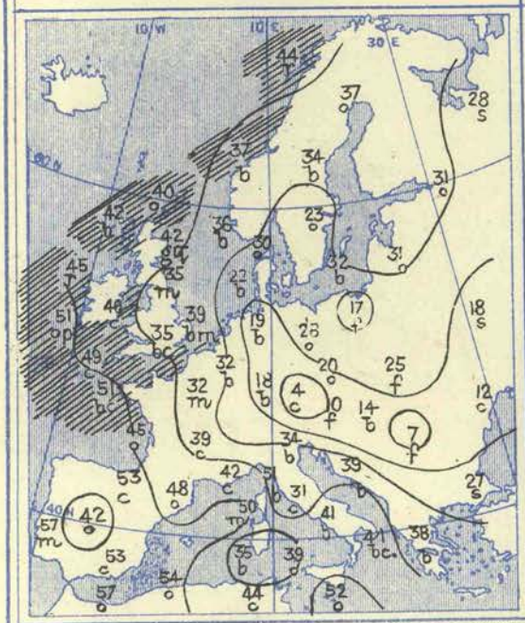
Temperature risen over Scandinavia and the north of Russia, but fallen in most other places. Morning readings highest, (1) 57° at Lisbon, 54° at Biarritz, 50° at Cagliari; (2) 53° at Valencia (Ireland), and 49° at Scilly; above 45° over Ireland and Scotland generally. Lowest, 8° at Munich, 12° at Buda-Pesth, 14° at Hermanstadt and Frankfürt, 16° at Moscow, and 19° at Belfort and Cuxhaven. Lowest in our Islands, 24° at Loughborough, 25° at Oxford, and 30° in London. Rising during day to 50° and upwards at many of our west coast stations, and also in the west of France; exceeding 55° at several of the Mediterranean stations, and reaching 61° at Nemours and Oran, and 63° at Cagliari.

Wind light to moderate from the Eastward over Germany, France, and the south of England. Strong from South-East on our south-west coasts, and blowing a moderate gale in the south of Ireland. Southerly in Scotland, and South-Westerly to Westerly over northern Europe. Chiefly North-Easterly to Northerly over central and southern Europe. No important change occurring during day.

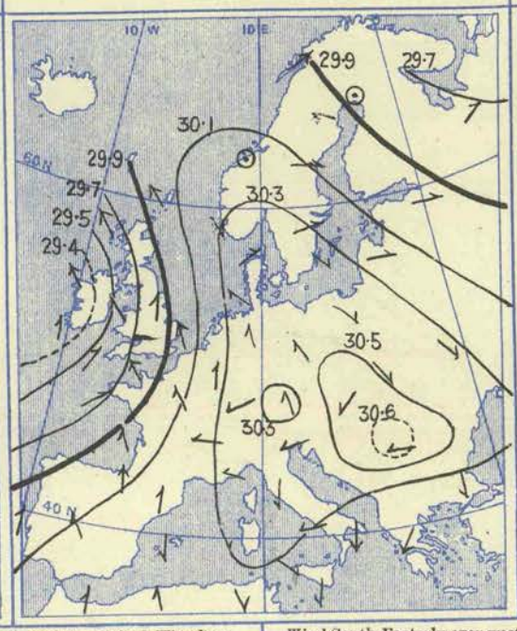
Barometer highest, 30·7 ins. and upwards over eastern Germany; 30·3 ins. and upwards in an anticyclone covering the whole of eastern and central Europe. Lowest, 29·7 ins. and less in a depression lying off our south-west coasts, and 29·9 ins. and less in another low pressure system over the south-eastern part of the Mediterranean. Depression in south-west spreading over the whole Kingdom later, and anticyclone moving away to the eastward.

Wednesday, 16th January.

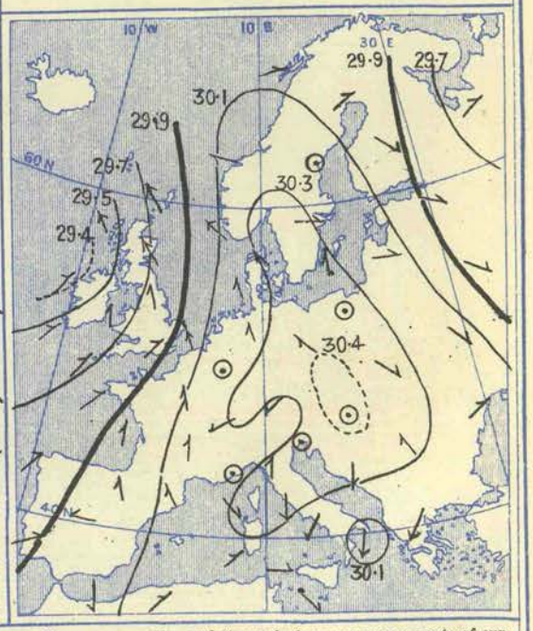
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the northern, eastern, and central parts of the United Kingdom, as well as over a considerable portion of the Continent, but rainy at many of our western and south-western stations. Dull in Russia, with snow at Archangel and Kiev; snow falling also at Athens and Constantinople. A little rain falling later in most parts of the United Kingdom, and also in the north of France; larger quantities occurring at some of the Spanish stations.

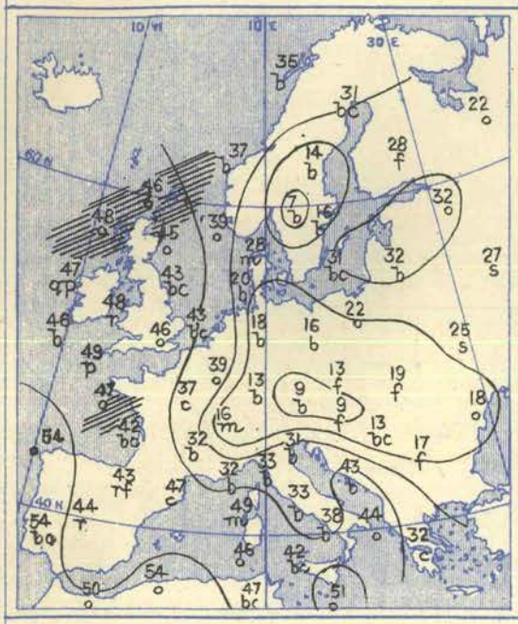
Temperature risen over England and France; fallen in most other countries. Morning readings highest, 57° at Lisbon and Oran, 54° at Algiers, and 53° at Biarritz, Bilbao, and Alicante; above 50° in the west of France and the extreme south-west of Ireland. Lowest, 4° at Munich, 7° at Hermanstadt and Nicolaieff, and 8° at Kharkov; considerably below the freezing point over eastern and central Europe generally, and slightly below it over central England. Rising during day to 45° and upwards over the United Kingdom generally, to 50° and upwards at many of our western stations, and to 54° at Scilly. Exceeding 55° over Spain and southern Italy, and reaching 72° at Malta.

Wind South-Easterly over western Europe generally, and strong in force on many parts of our western and extreme northern coasts. Westerly or North-Westerly in Sweden and Russia; variable in Austria; North-Easterly or Northerly in Greece and Italy. Subsequently veering to the South-Westward on our own southern coasts; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards over eastern Austria; 30·2 ins. and upwards over the whole of eastern and central and a considerable portion of southern Europe. Lowest, 29·4 ins. and less in a depression off the west of Ireland; 29·7 ins. and less in another disturbance over the White Sea; 30·0 ins. and less in a third system near Malta. Irish depression subsequently moving northwards; disturbance over White Sea travelling south-eastwards; low pressure system near Malta partially filling up.

Thursday, 17th January.

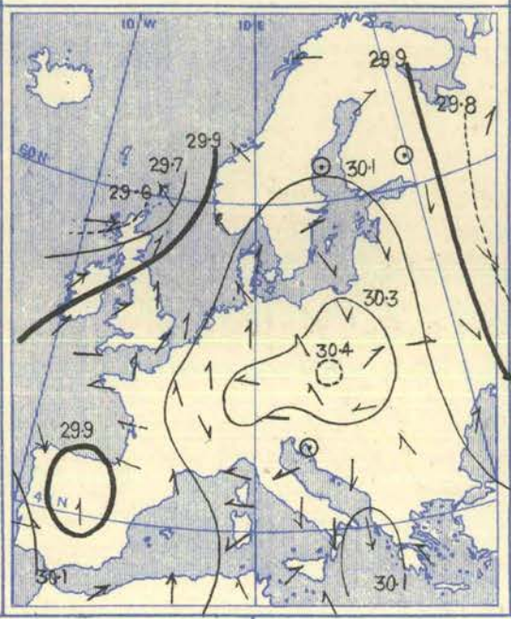
Temperature and Weather. 8 a.m.



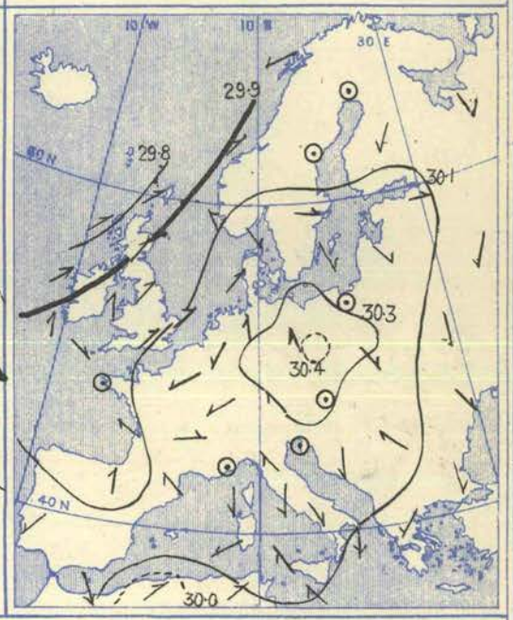
Weather in morning fine and bright over the greater part of Continental Europe, and in Ireland and Scotland—very changeable over England, with rain in many places. Rain later in many parts of England and Ireland, but not in large quantity, also in the south-west of France; none elsewhere.

Temperature risen a little over Scandinavia, the eastern shores of the North Sea, and Great Britain, fallen elsewhere, but not changing permanently anywhere. Morning readings highest, (1) 50° and more on the coasts of Algeria and Portugal, 49° at Scilly, 48° at the Welsh stations, 47° at Blacksod. Lowest, (1) 9° to 16° over Austria, Hungary, and north Germany, 18° to 19° in the south of Russia, and much below the freezing point over central and eastern Europe generally. Touching 52° to 50° later on our extreme western and south-western coasts, and 49° in many parts of Great Britain, 54° on the south coast of France, 59° at Palermo, 61° at Nemours and Oran.

Barometer and Wind. 8 a.m.



6 p.m.

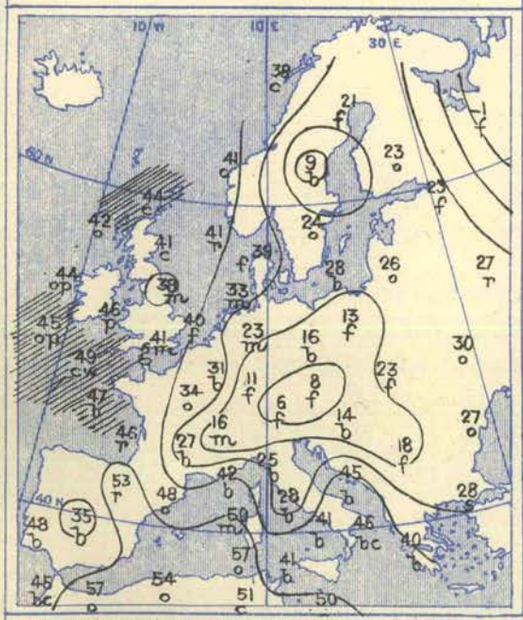


Wind light and anticyclonic over central and eastern Europe (North-Westerly over Russia, Easterly over France); (2) South-Westerly and Southerly over the British Islands and over the east of Spain, North-Westerly over Portugal. Becoming much lighter and more variable over the British Islands and France later, remaining very light over the Continent.

Barometer highest, 30·4 ins. at Prague, 30·3 ins. and more to 30·1 ins. all over south-eastern, central, and northern Europe. Lowest, (1) 29·6 ins. and less off the north-west of Scotland; and (2) below 29·9 ins. in a shallow depression over Spain. Rising later over the United Kingdom (especially in north), very little change elsewhere.

Friday, 18th January.

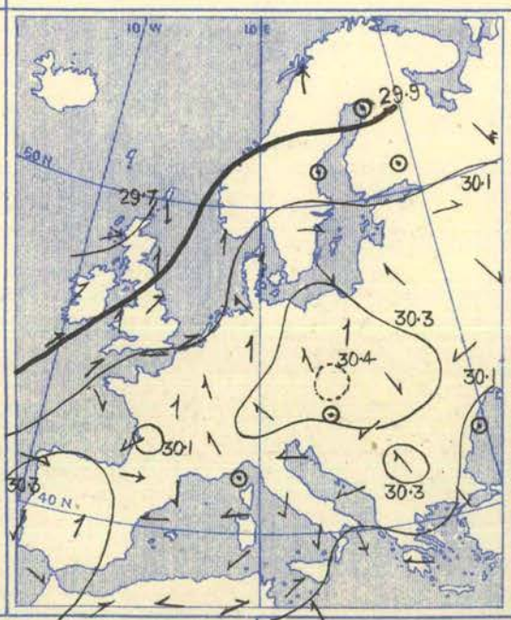
Temperature and Weather. 8 a.m.



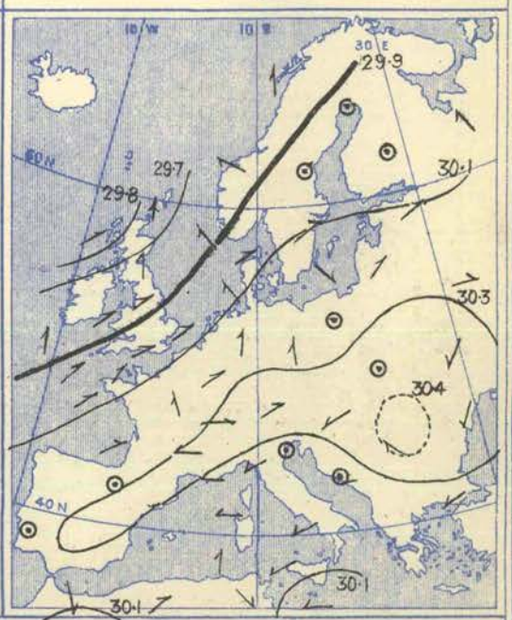
Weather in morning fine and quiet all over central Europe and the Baltic, clear and bright in many places both in that region and southern Europe; cloudy and changeable in the British Islands, rainy in the west of France. Much rain later in the south-west of the British Islands and at Brest, not much in other districts, and none over central Europe. Thunder at Roches Point, fog over Scandinavia and also at Yarmouth.

Temperature fallen over central Europe and the Baltic, changed rather irregularly in our Islands. Morning readings highest, 57° to 50° on the southern and western sides of the Mediterranean, 53° at Biarritz, 49° to 45° on the south-western and southern coasts of the British Islands, 42° at Stornoway, 41° on the west coast of Norway. Lowest, (1) 9° Fahr. at Hernösand, 19° to 23° over the north of Russia; (2) 6° at Munich, 11° at Frankfurt, and much below the freezing point all over central Europe. Rising later to between 54° and 50° on our southern coasts, and at Loughborough, and to between 49° and 45° over most other parts of Ireland and England, bnt not exceeding 9° at Hernösand, 19° at Frankfurt, and 16° at Berlin.

Barometer and Wind. 8 a.m.



6 p.m.

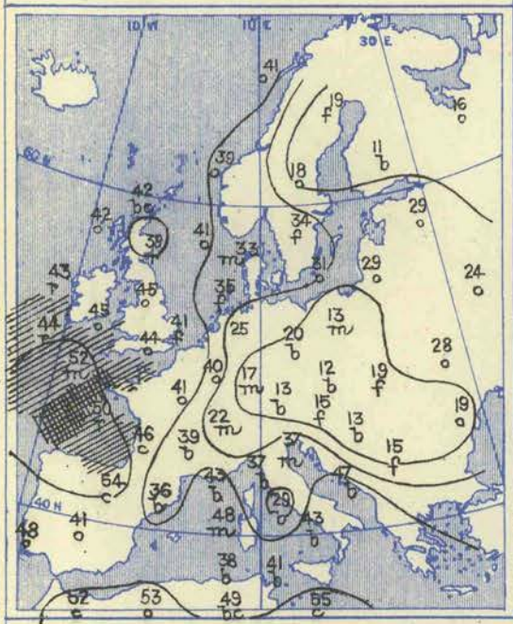


Wind (1) very light and anticyclonic over central Europe; (2) light (South-Westerly to Southerly) over the United Kingdom; (3) light but cyclonic over the south-western departments of France. The latter circulation breaking up during the day, and wind becoming more Southerly in Ireland.

Barometer highest, (1) 30·4 ins. and more to 30·2 ins. over the whole of central Europe, and 30·4 ins. to 30·3 ins. over the Spanish Peninsula. Lowest, (1) 29·9 ins. and less over Lapland, and 29·7 ins. and less off the extreme north-west of Scotland; (2) 30·1 ins. and less in a local depression over the south-west of France, and in other disturbances over Africa, and to the southward of Greece. Rising in latter districts later, and French depression disappearing.

Saturday, 19th January.

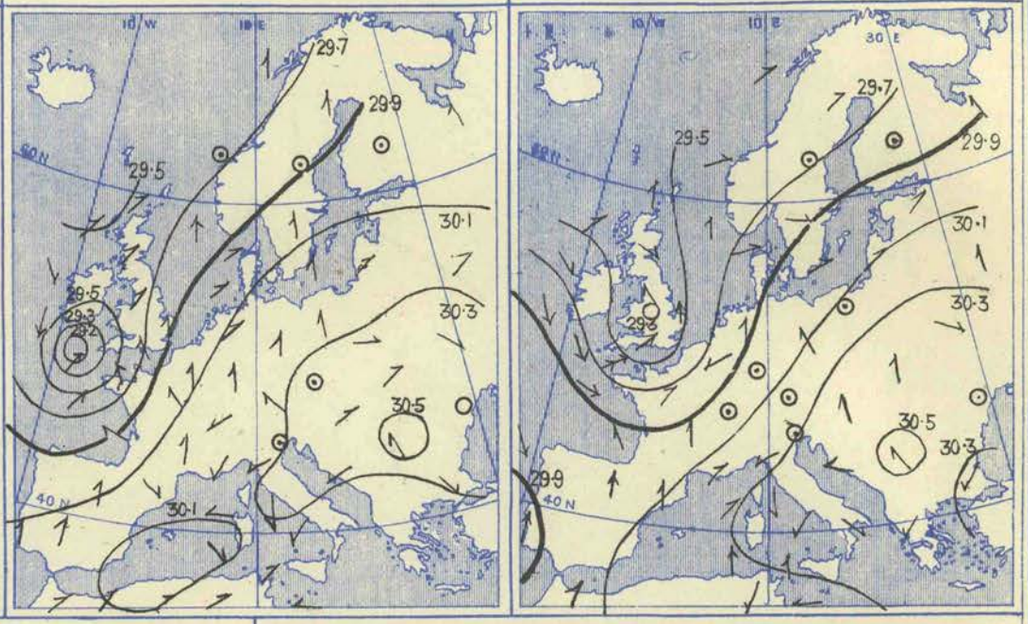
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over the greater part of eastern, central, and southern Europe, and temporarily fair at several of our extreme northern and north-western stations, very rainy in the south-west and south of our Islands and over Brittany, foggy in Holland. Rain falling later during some parts of the day in nearly all portions of our Islands and their neighbourhood, snow in central Finland; sky subsequently clearing in Ireland.

Temperature in shade risen over England and France, falling in Ireland, changing irregularly elsewhere. Morning readings highest, 53° to 50° on the Algerian coast, 52° at Scilly, 50° at Lorient, 48° at Jersey, 44° in London. Lowest, (1) 11° at Kuopio, 16° at Archangel, 18° at Hernösand, 24° at Moscow; (2) 17° at Odessa, 10° to 20° over many parts of central Europe, 25° at Cuxhaven, 34° at the Helder. Falling over our Islands later, but touching 59° at Marseilles and Cagliari, 63° at Oran and Algiers; remaining very low over northern, eastern, and central Europe.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind (1) light and anticyclonic over the greater part of central, southern and eastern Europe; (2) South-Easterly and Southerly (moderate to a gale) over England, Northerly (fresh) in Ireland. Blowing strongly from South and South-East on many of the Spanish coasts also. Subsequently veering to West in the English Channel to North on the Welsh coasts, South and South-East on our eastern coasts and blowing hard, then becoming North-Westerly generally and moderating.

Barometer in morning highest, 30·51 ins. at Hermanstadt, and exceeding 30·2 ins. over the eastern, central and southern countries generally. Lowest, (1) 29·49 in. at Stornoway; (2) 29·2 ins. and less in a small but deep depression near Scilly. Latter system moving north-eastwards across England during day, and its centre reaching the eastern half of the North Sea next day.

ERRATA.—The "Differences from the Mean" for the "No. of Rainy Days" given on page 7 in last week's Report were obtained by accidental comparison with erroneous values. They should have read as follows:—

Scotland N.	- 3	England E.	- 3	Scotland W.	- 1	Ireland N.	- 1
Scotland E.	- 1	Midland Counties	0	England N.W.	- 1	Ireland S.	- 2
England N.E.	- 2	England S.	- 1	England S.W.	- 2	Channel Islands	- 2

GENERAL NOTES.

At the beginning of this week barometric pressure was highest (30·7 ins. to 30·5 ins.) in a large anticyclone which covered the whole of central Europe and the southern half of Scandinavia. From these regions it decreased to less than 29·8 ins. over the White Sea, to about the same value off the West of Ireland and to less than 30·0 ins. to the southward of Malta. Thus the winds over northern Europe were North-Westerly to Westerly, in the British Islands South-Easterly to Southerly, and in France Easterly to North-Easterly. Temperature was high for the time of year over Ireland, England and France, much lower over Russia and central Europe, and in our Islands the weather was fair except in the west and north. As time went on the anticyclone moved southwards slowly, and the depressions which from time to time assaulted our western coasts from the Atlantic were rebuffed, so that on Tuesday the pressure over Germany was still 30·7 ins., and that off our western coasts about 29·7 ins.

After this the anticyclone decreased in intensity, the Atlantic disturbances encroached on our Islands more and more, and on Thursday the barometer over Germany ranged from 30·4 ins. to 30·2 ins., the readings in the north-west of Scotland were below 29·6 ins., and a new shallow depression had appeared over the Bay of Biscay, but soon after filled up over the south-west of France.

Early on Saturday a small deep system (minimum below 29·2 ins.) appeared near Scilly, and travelling north-eastward reached our Midland Counties by 6 p.m. and the North Sea by next morning. This brought Southerly to Westerly gales over the southern parts of the Kingdom and an Easterly to Northerly gale on the Welsh coasts, unsettled squally weather generally, and a great deal of rain in the west.

The weather of the week has consequently been becoming less and less fair gradually, but was inclined to improve again a little from the southward and westward.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	7·1	?	15	?	BRIGHTON	11·9	+ 0·4	21	+ 1
STRATHPEFFER SPA	11·0	+ 5·5	22	+ 7	WORTHING	15·1	?	26	?
EDINBURGH	6·2	- 1·1	12	- 2	BOGNOR	16·4*	?	28*	?
MORPETH	0·0	?	0	?	WATERGATE (Emsworth)	11·5	?	20	?
NEWCASTLE-ON-TYNE	1·3	?	2	?	WESTBOURNE (Emsworth)	12·4*	- 0·1	21*	- 1
OSWALDKIRK (Yorkshire)	13·0	+ 4·5	24	+ 8	VENTNOR HOSPITAL	13·3	?	23	?
LOWESTOFT	10·6	?	19	?	SOUTHPORT	7·0	?	13	?
HOLLESLEY BAY	15·9	?	28	?	RHYL	*	?	*	?
SHEFFIELD	3·9	?	7	?	COLWYN BAY	10·8	?	19	?
WORKSOP	4·9	- 3·2	9	- 5	ABERDOVEY	16·9*	?	30*	?
THURCASTON (Leicestershire)	7·6	- 1·3	14	- 2	TENBY	2·9	- 10·5	5	- 18
MARGATE	15·4	+ 4·9	27	+ 9	NEWQUAY				
BROADSTAIRS	18·1	?	31	?	TORQUAY	14·0	+ 1·0	24	+ 2
EASTBOURNE	15·5	+ 3·5	27	+ 6	GUERNSEY	15·2*	+ 3·6	25*	+ 6

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 4.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 26TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 20.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	52	25	43·9	34·5	39·4	2 above	5	− 1	29	− 8	33	+ 9	100	−43
	1. SCOTLAND, EAST -	54	27	45·0	34·0	39·8	3 above	8	0	32	−10	15	−13	146	−21
	2. ENGLAND, N.E. -	55	30	47·9	36·5	42·4	5 above	26	+18	15	−22	31	+ 1	113	−35
	3. ENGLAND, EAST -	54	28	48·2	36·7	42·7	5 above	27	+19	15	−26	34	+ 4	123	−40
	4. MIDLAND COUNTIES	58	27	48·2	36·5	42·6	5 above	27	+17	15	−27	33	− 5	153	−15
	5. ENGLAND, SOUTH -	55	32	48·8	39·6	44·4	5 above	27	+15	7	−25	52	+ 6	100	−28
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	51	31	47·1	36·9	42·2	3 above	23	+13	14	−17	42	+ 1	88	−33
	7. ENGLAND, N.W. -	52	30	47·5	38·0	43·0	4 above	24	+15	11	−19	38	0	110	− 8
	8. ENGLAND, S.W. -	53	28	49·1	40·5	45·0	4 above	27	+12	4	−20	60	− 1	84	− 8
	9. IRELAND, NORTH -	55	30	47·2	36·8	42·2	2 above	23	+10	15	−11	63	+10	66	−37
	10. IRELAND, SOUTH -	54	25	49·4	38·8	44·3	2 above	30	+10	9	−11	85	+ 4	51	−30
	—CHANNEL ISLANDS-	54	43	51·7	45·4	48·6	5 above	46	+23	0	−11	130	+36	30	−10

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 20.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	21	8 more	17	− 3	3·5	− 1·6	3	− 5	6	− 8	22	− 2	11	− 2
	1. SCOTLAND, EAST -	5	7	1 more	15	0	1·9	− 0·6	7	− 4	13	− 7	22	−14	11	− 7
	2. ENGLAND, N.E. -	3	2	3 less	12	− 3	1·8	+ 0·1	7	0	13	0	14	−18	10	− 8
	3. ENGLAND, EAST -	3	1	3 less	12	− 4	1·5	− 0·3	18	+ 3	30	+ 5	51	− 3	18	− 2
	4. MIDLAND COUNTIES	4	3	2 less	16	+ 1	2·9	+ 0·7	9	− 2	15	− 4	29	− 8	14	− 4
	5. ENGLAND, SOUTH -	4	2	4 less	15	0	2·2	− 0·2	14	+ 1	25	+ 3	55	+ 6	22	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	7	17	4 more	19	+ 1	3·8	− 1·5	5	− 5	9	− 8	23	−11	11	− 5
	7. ENGLAND, N.W. -	7	9	3 more	18	+ 2	2·2	− 0·6	6	− 5	10	−10	39*	− 5	14	− 2
	8. ENGLAND, S.W. -	6	12	3 more	18	0	4·2	+ 0·4	8	− 6	14	− 8	47	+ 1	22	+ 1
	9. IRELAND, NORTH -	6	12	5 more	19	0	2·7	− 0·3	3	− 8	5	−15	46	+ 8	21	+ 3
	10. IRELAND, SOUTH -	7	8	0 (average)	20	+ 2	3·7	− 0·1	5	− 9	8	−15	44	− 6	20	− 2
	— CHANNEL ISLANDS-	6	5	2 less	18	0	2·9	− 0·2	13	− 3	20	− 4	65	+11	28	+ 5

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was again mild and unsettled very generally, with frequent rain in the west and north and occasional showers over the eastern and southern parts of England. Towards the end of the week considerable falls of snow or sleet were experienced in Scotland and the north of England, and thunder and lightning occurred at some of the north-western stations.

Temperature was above the mean, the excess ranging from 2° over Ireland and in Scotland N. to 5° over most parts of England and in the Channel Islands. The highest of the maxima were registered on the 21st, when the thermometer rose to 58° in the Midland Counties, 55° in England S. and N.E. and Ireland N., and to 51° in Scotland W. The lowest of the minima were recorded on the 26th, and ranged from 25° in Scotland N. and Ireland S. and 27° in the Midland Counties, to 32° in England S. and to 43° in the Channel Islands.

Rainfall exceeded the mean in Scotland, all the western parts of England and in Ireland N., and just equalled the normal in Ireland S. Elsewhere there was a deficit.

Bright Sunshine was less than the mean in all districts, excepting England S., E. and N.E. The percentage of the possible duration ranged from 30 in England E., 25 in England S., and 20 in the Channel Islands, to 8 in Ireland S., 6 in Scotland N. and 5 in Ireland N.

Barometer and Wind.—During the whole of this period the barometer was highest over the southern part of our area, while large depressions, moving eastwards, swept over the northern regions, their secondary systems passing in a similar direction further to the southward. Gradients were generally steep, and the resulting Westerly winds frequently very strong, in many places attaining the force of a gale.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 19 has been calculated.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head	46	30	42·7	35·4	39·2	+ 0·3	2	25	7	1·18	+ 0·33	*	*	*	*
	Stornoway	52	29	43·6	35·7	39·8	+ 1·0	4	24	7	1·23	+ 0·16	3·8	- 4·3	7	- 8
	Wick §	51	25	42·3	32·4	37·6	- 0·1	1	36	6	1·12	+ 0·61	*	*	*	*
	Lairg §	52	27	45·7	32·2	39·2	+ 4·0	10	39	6	1·94	+ 1·15	*	*	*	*
	Glencarron §	49	28	43·2	34·4	39·0	+ 1·8	3	29	7	2·57	+ 0·48	*	*	*	*
	Fort Augustus §	50	30	43·9	34·4	39·3	+ 1·3	5	29	7	2·34	+ 1·29	0·7	- 4·3	1	- 8
	Fort William §	50	31	46·2	37·3	41·9	+ 3·2	12	20	7	3·96	+ 1·78	1·2	- 6·3	2	-11
1. SCOTLAND, E.	Nairn	52	30	45·0	34·3	39·9	+ 2·4	8	31	6	0·90	+ 0·48	*	*	*	*
	Aberdeen	54	30	45·3	35·0	40·4	+ 2·6	9	29	5	0·17	- 0·35	13·3	- 0·2	25	0
	Braemar §	48	27	42·6	32·3	37·7	+ 3·3	2	36	5	1·32	+ 0·64	*	*	*	*
	Ochtertyre §	52	28	45·1	33·7	39·6	+ 2·6	9	33	6	0·67	- 0·38	*	*	*	*
	Leith	52	31	47·1	35·7	41·6	+ 2·5	14	27	5	0·70	+ 0·30	*	*	*	*
	Marchmont §	51	29	45·1	33·1	39·3	+ 2·8	9	35	4	0·46	- 0·14	4·0	- 6·9	7	-13
2. ENGLAND, N.E.	Alnwick Castle	55	32	48·2	36·3	42·5	+ 4·7	27	16	2	0·21	- 0·29	*	*	*	*
	Durham	51	30	47·3	34·1	41·0	+ 3·9	15	33	3	0·11	- 0·31	11·4	+ 0·1	20	0
	Shields	54	31	48·1	36·6	42·6	+ 4·0	27	15	4	0·16	- 0·22	*	*	*	*
	Scarborough Ⓜ	50	34	47·7	37·9	43·0	+ 4·6	24	11	3	0·18	- 0·27	10·0	?	17	?
	Spurn Head	51	34	47·3	38·0	42·8	+ 4·7	22	11	1	0·05	- 0·24	*	*	*	*
	Fulbeck (Lincolnshire)	52	31	49·0	35·9	42·7	+ 6·3	31	17	4	0·17	- 0·21	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	28	47·9	36·4	42·4	+ 5·2	26	16	4	0·19	- 0·26	10·2	- 1·4	18	- 2
	Yarmouth	51	33	46·7	35·9	41·5	+ 4·2	13	26	4	0·22	- 0·20	*	*	*	*
	Geldeston	51	30	48·5	37·0	43·0	+ 4·8	28	14	2	0·04	- 0·31	17·8	+ 4·8	30	+ 9
	Cambridge	54	29	49·6	37·4	43·7	+ 6·0	31	13	2	0·02	- 0·32	15·4	+ 2·8	26	+ 6
	Felixstowe	51	33	48.0	37.3	42·9	+ 4·5	26	13	2	0·11	?	23·7†	?†	40†	?†
	Rothamsted	52	29	48·5	36·0	42·5	+ 5·2	29	17	3	0·06	- 0·46	14·7	+ 3·0	25	+ 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	30	48·9	36·6	43·0	+ 5·3	30	15	3	0·33	- 0·07	*	*	*	*
	Loughborough	53	28	48·9	36·7	43·0	+ 5·0	29	15	4	0·30	- 0·15	*	*	*	*
	Colly Weston (Stamford)	53	31	48·4	36·3	42·6	+ 5·3	28	16	2	0·05	?	*	*	*	*
	Cheadle Ⓜ	52	32	46·2	36·1	41·4	+ 4·6	12	25	6	0·70	+ 0·11	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	53	33	47·6	38·4	43·2	+ 5·2	10	24	5	0·17	- 0·32	9·2	?	16	?
	Churchstoke Ⓜ	54	27	48·0	36·5	42·5	+ 4·7	27	15	6	0·65	+ 0·05	8·8	- 3·3	15	- 5
	Hereford (Belmont) Ⓜ	58	29	49·8	38·1	44·2	+ 5·6	32	11	6	0·23	- 0·32	*	*	*	*
	Cirencester	51	27	47·4	33·7	40·8	+ 3·1	15	35	4	0·11	- 0·53	5·2	- 7·0	9	-12
	Oxford	52	31	48·6	36·4	42·7	+ 4·2	28	16	3	0·04	- 0·41	10·0	- 2·0	17	- 3
5. ENGLAND, S.	London	53	36	49·7	39·1	44·6	+ 5·5	30	8	2	0·16	- 0·28	7·7†	+ 0·9†	13†	+ 2†
	Swarraton (Alresford) Ⓜ	52	32	48·4	36·8	42·8	+ 5·1	27	15	4	0·28	- 0.40	*	*	*	*
	Dungeness	50	36	48·9	39·9	44·6	+ 5·3	27	6	2	0·05	- 0·35	19·8	?	33	?
	Hastings (St. Leonards)	50	35	48·3	39·0	43·8	+ 4·3	25	8	3	0·05	- 0·55	18·8	+ 3·8	31	+ 7
	Southampton	55	37	5)·4	41·7	46·2	+ 6·1	31	1	4	0·15	- 0·53	8·2	- 4·6	14	- 7
	Portland Bill	51	40	49·1	42·6	46·0	+ 4·4	28	0	3	0·12	?	*	*	*	*
	Shaftesbury Ⓜ	50	35	47·1	38·4	42·9	+ 5·2	21	10	7	0·69	+ 0·02	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	31	47·7	37·1	42·6	+ 2·6	25	14	7	2·83	+ 1·04	*	*	*	*
	Glasgow	51	32	45·1	36·3	40·9	+ 2·2	9	24	7	1·21	+ 0·37	1·1	- 5·7	2	-10
	Glenlee §	50	33	47·5	36·0	42·0	+ 4·4	15	17	7	1·90	+ 0·39	*	*	*	*
	Douglas (Isle of Man)	51	34	48·1	38·2	43·4	+ 2·8	26	11	6	0·67	- 0·25	8·3	- 4·4	15	- 7
7. ENGLAND, N.W.	Newton Reigny	50	31	46·4	35·9	41·4	+ 5·6	12	26	7	1·17	?	2·0	?	4	?
	Stonyhurst	50	33	45·8	37·0	41·6	+ 3·6	11	22	7	1·72	+ 0·82	1·8	- 7·2	3	-13
	Blackpool Ⓜ	49	32	47·3	39·1	43·4	+ 5·0	22	8	7	0·60	- 0·02	3·8	- 6·2	7	-10
	Manchester (Prestwich)	51	30	47·4	36·1	42·0	+ 3·8	15	17	7	1·49	+ 0·82	0·8	?	1	?
	Liverpool Obsy. (Bidston)	52	35	48·4	38·7	43·7	+ 4·4	26	9	6	0·58	+ 0·10	5·0	?	9	?
	Llandudno Ⓜ	52	35	49·3	39·9	44·8	+ 3·5	28	6	6	0·47	- 0·13	8·7	- 3·3	15	- 6
	Holyhead	51	35	48·1	39·6	44·0	+ 2·1	24	7	6	0·47	- 0·22	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	28	47·9	36·4	42·4	+ 4·2	26	16	7	1·99	+ 0·89	*	*	*	*
	Pembroke	50	38	48·4	42·1	45·4	+ 3·0	24	0	7	0·68	- 0·12	5·9	- 7·9	10	-13
	Clifton	50	35	48·1	39·7	44·1	+ 4·2	24	6	6	?	?	*	*	*	*
	Bath	52	31	49·3	37·9	43·8	+ 3·6	30	11	5	0·49	?	? 7·0	?	?12	?
	Arlington (N. Devon)	?	?	?	?	?	?	?	?	7	2·17	+ 1·17	*	*	*	*
	Cullompton Ⓜ	53	36	49·6	40·2	45·1	+ 4·9	29	5	7	1·46	+ 0·74	6·5	- 5·0	11	- 8
	Falmouth	52	40	50·0	43·3	46·8	+ 3·3	34	0	7	0·75	- 0·36	12·5	- 1·5	20	- 3
	Plymouth	52	40	50·4	43·6	47·1	+ 5·0	36	0	5	0·72	- 0·11	8·9	- 4·4	15	- 6
9. IRELAND, N.	Malin Head	50	34	46·1	38·7	42·6	+ 1·0	18	9	6	0·86	?	*	*	*	*
	Londonderry	55	30	47·9	35·7	42·0	+ 1·8	17	18	6	1·28	+ 0·46	*	*	*	*
	Edenfel (Omagh)	51	31	46·3	36·0	41·4	+ 3·4	12	26	6	1·21	+ 0·47	*	*	*	*
	Blacksod Point	51	33	48·7	39·4	44·2	+ 1·4	26	7	7	1·44	?	*	*	*	*
	Markree Castle	52	30	47·9	36·0	42·2	+ 2·5	27	17	7	1·60	+ 0·80	4·2	- 5·8	7	-12
	Armagh	51	33	46·9	35·9	41·6	+ 2·4	14	26	5	1·17	+ 0·58	1·9	- 9·8	3	-17
	Donaghadee	52	32	46·7	36·0	41·6	+ 1·1	13	26	6	0·84	+ 0·24	*	*	*	*
10. IRELAND, S.	Dublin	54	34	49·0	38·1	43·8	+ 2·0	29	11	5	0·47	- 0·02	6·2	- 8·1	11	-13
	Parsonstown	51	29	48·4	36·3	42·6	+ 2·7	28	16	7	1·01	+ 0·38	4·4	- 8·4	8	-14
	Kilkenny	52	25	48·4	35·0	42·0	+ 0·9	18	20	7	0 94	+ 0·22	*	*	*	*
	Roche's Point	52	35	50·1	40·3	45·4	+ 2·0	31	5	7	0·13	- 0·99	*	*	*	*
	Valencia	53	39	50·9	42·7	47·0	+ 2·4	35	0	7	0·74	- 0·61	3·2	-10·3	5	-18
	Killarney												*	*	*	*
	Foynes	52	36	49·4	40·3	45·0	+ 3·3	28	5	6	1·61	+ 0·83	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	43	52·3	45·3	48·9	+ 3·2	48	0	6	0·20	- 0·57	11·1	?	18	?
	Jersey	52	43	51·0	45·4	48·3	+ 5·8	44	0	6	0·81	+ 0·13	16·9	- 0·1	27	0

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

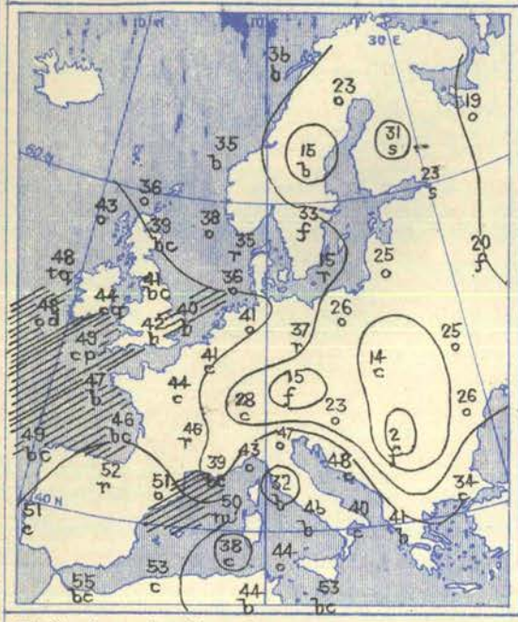
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

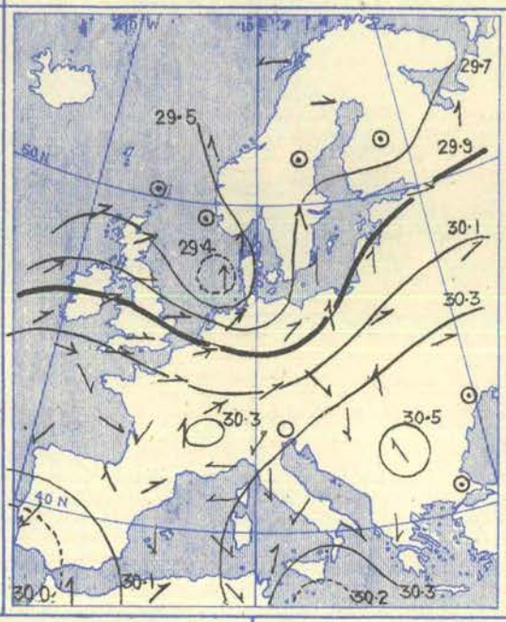
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on Sea and those entered to Liverpool at Hoylake.

Sunday, 20th January.

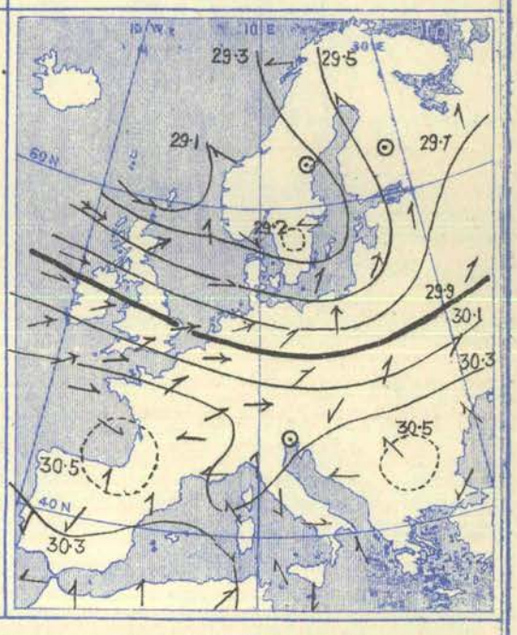
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of the United Kingdom, but dull and rainy on our extreme western coasts. Fine in the northern parts of Scandinavia and also in the west of France, Italy and Greece; cloudy or dull in other parts of Europe, with fog in Austria and rain in Denmark, north Germany and the south of Sweden, as well as in the south of France; snow falling at Faerder, Kuopio, and St. Petersburg. Rain falling later in most parts of western and central Europe, but only in small quantity.

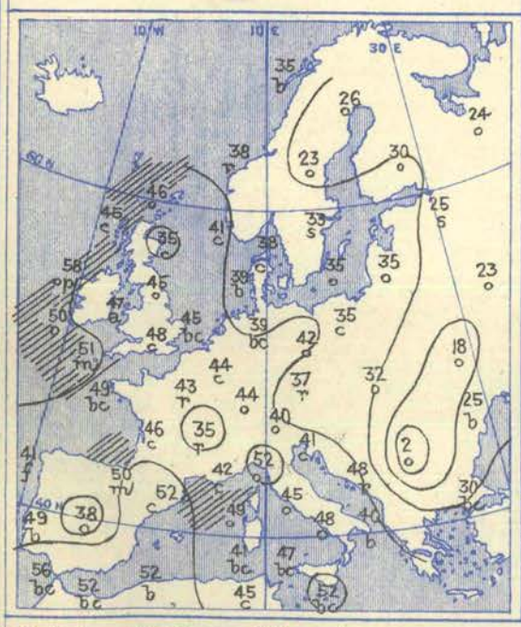
Temperature fallen a little over England and Norway, risen in most other countries, rapidly in north Germany. Morning readings highest, 55° at Oran, 53° at Malta and Algiers, and 52° at Biarritz; above 45° on our own extreme west and south-west coasts. Lowest, 2° at Hermanstadt, 10° at Cracow, 14° at Lemberg and 15° at Hernösand; below the freezing point over eastern and central Europe generally. Rising during day to 50° or slightly above it in many parts of the United Kingdom; exceeding 55° at several of the Mediterranean stations, and exceeding 60° on some parts of the Spanish and Portuguese coasts.

Wind Westerly over our Islands, France and the Netherlands, and strong in force on many parts of the English coasts. South-Westerly or Southerly over Denmark, the Baltic and northern Russia; Easterly or North-Easterly in Norway. Northerly (North-Easterly to North-Westerly) in most parts of southern Europe. Subsequently veering to the North-Westward in the north of Scotland and increasing to a gale; backing to the South-Westward at many of the English stations.

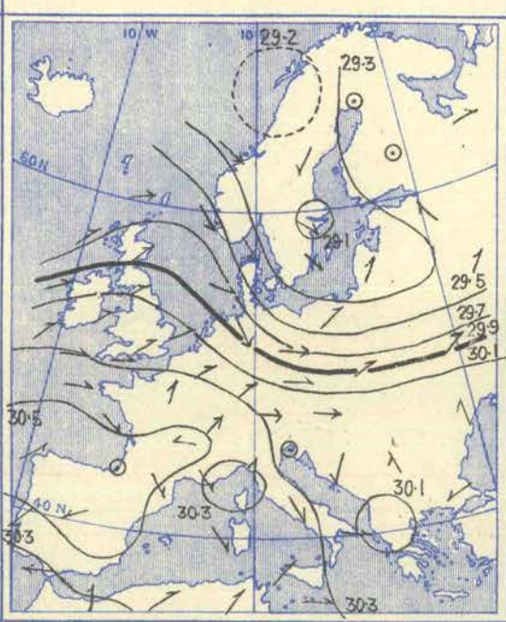
Barometer highest, 30·3 ins. to 30·5 ins. and upwards in an anticyclone lying over the south-eastern parts of the Continent generally. Lowest, 29·4 ins. and less in a well-marked depression over the North Sea with its centre near the Danish coasts; 30·0 ins. and less in a large shallow disturbance over the south of Spain. Depression over North Sea subsequently moving north-eastwards to the south of Sweden; new disturbance appearing off the north of Scotland in evening.

Monday, 21st January.

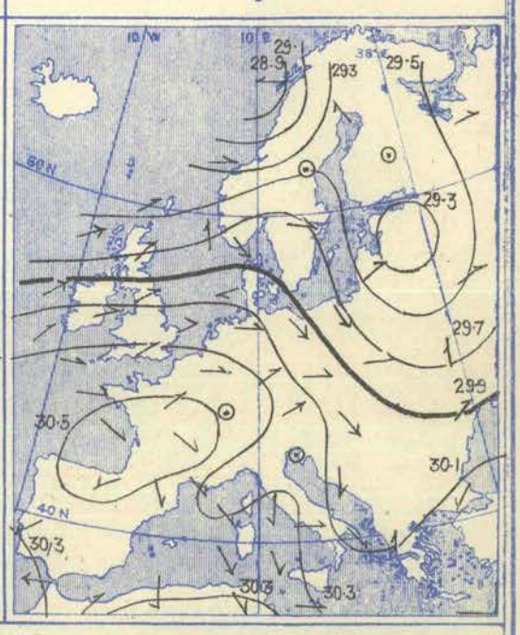
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in several isolated places, and with snow at Helsingfors, St. Petersburg and Stockholm. Fine at several of the Mediterranean stations. Slight rain falling later in the west and extreme north of our Islands generally and snow in several parts of Scandinavia and northern Russia.

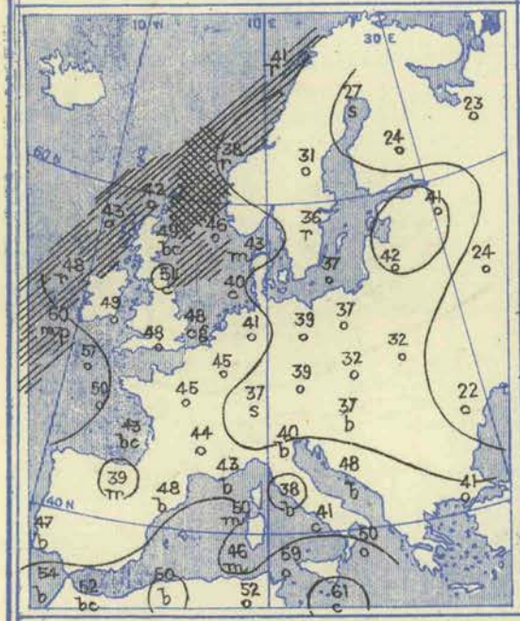
Temperature risen in most countries; rapidly in Austria and south Germany. Morning readings highest, 56° at San Fernando and 52° at Oporto, Barcelona, Nemours, Algiers and Malta; slightly above 50° in the Scilly and Channel Islands, and touching that point in the south of Ireland. Lowest, 2° at Hermanstadt, 18° at Kiel and 21° at Kharkov and Nicolaieff, below the freezing point over eastern and central Europe generally. Rising during day to 50° and upwards in most parts of the United Kingdom, and to 54° at Aberdeen and Scilly; exceeding 60° at several of the Mediterranean and Spanish coast stations.

Wind light to moderate from the South-Westward over our Islands and the neighbouring parts of the Continent. Strong from the North-Westward in Norway and Denmark (with a gale at Skudesnaes) and from the Westward in Germany and Austria; South-Westerly over the central and southern parts of Russia. Variable in Italy, North-Westerly in the extreme south of France; North-Easterly over the Spanish Peninsula. Subsequently increasing from the Westward or South-Westward in Scotland and blowing a gale at night.

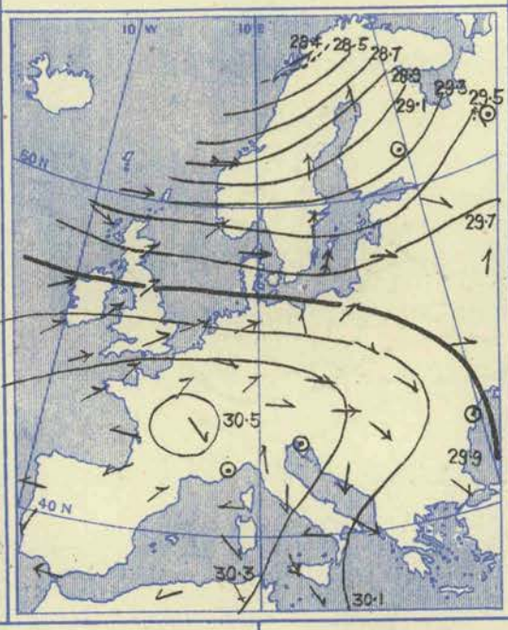
Barometer highest, 30·5 ins. and upwards to 30·4 ins. in an anticyclone over France and Spain. Lowest, 29·1 ins. and less in a small depression near Stockholm; 29·2 ins. and less in a larger disturbance over the west of Norway; 30·1 ins. and less in a shallow area over southern Turkey. New depression skirting the north of Scotland later, and barometer falling briskly on our extreme northern coasts.

Tuesday, 22nd January.

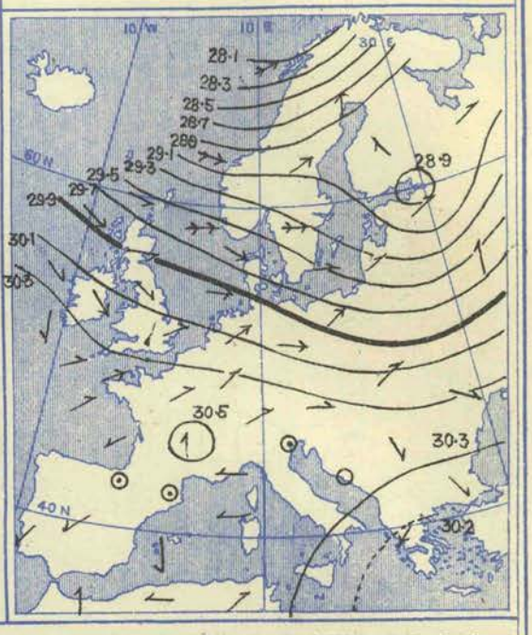
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on the east coasts of Great Britain and also over the greater part of southern Europe. Cloudy or dull elsewhere, with rain in Ireland as well as at some stations in the northern parts of Great Britain, and in the west of Norway. A little rain falling later in the west and north of our Islands generally and snow in several parts of northern Europe. Aurora seen in the north of Scotland.

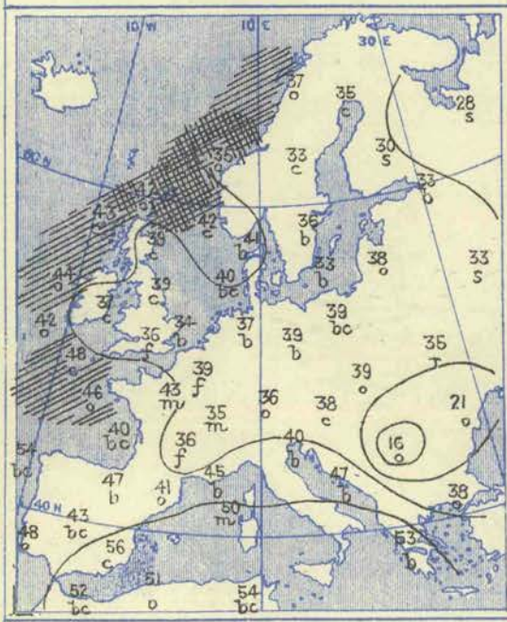
Temperature risen in all but the southern countries. Morning readings highest, 61° at Malta, 60° at Algiers, 54° at San Fernando and 53° at Palermo; as high as 50° or slightly above it at several of our own western and northern stations. Lowest, 21° at Nicolaieff, 22° at Odessa, and 23° at Archangel; below the freezing point over Russia and the northern parts of Sweden generally. Rising during day to 50° and upwards in all but the extreme northern and north-western parts of the United Kingdom, and to 54° at Shields and Scilly; exceeding 55° in many parts of southern Europe and reaching 63° at Madrid. Sharp frost occurring over the central parts of England and Ireland at night.

Wind South-Westerly or Westerly over our Islands and the northern parts of the Continent generally, with a gale in the Shetlands and the west of Norway. Strong to a gale from the Southward in Sweden. North-Easterly or Easterly over the Spanish Peninsula and the south of France; Northerly in Greece and Italy. Subsequently veering to the North-Westward on our own western and extreme northern coasts; no important change occurring elsewhere.

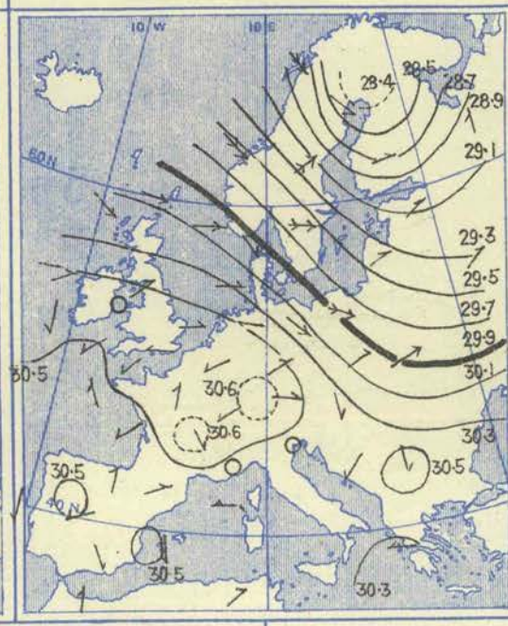
Barometer highest, 30·5 ins. and upwards over central France; 30·3 ins. and upwards in an anticyclone covering the whole of France, the Channel, south Germany, northern Italy and the Spanish Peninsula. Lowest, 28·4 ins. and less in a depression with its centre off the coasts of Finmark. Depression moving eastwards during day and barometer rising briskly in our Islands; small secondary disturbance appearing near St. Petersburg in evening.

Wednesday, 23rd January.

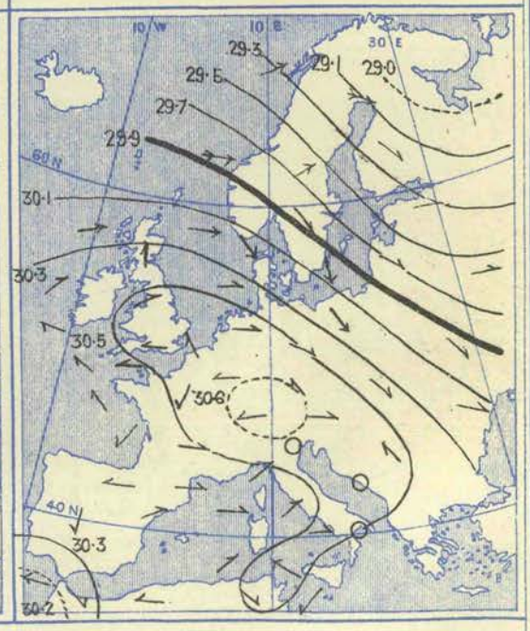
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but foggy or misty in many parts of England and France. Dull in Austria and south Germany with rain at Breslau and Lemberg; snow falling at Archangel, Kuopio and Moscow. A little rain falling later in the west and extreme north of our Islands and also in the west of Norway. Aurora seen at Wick.

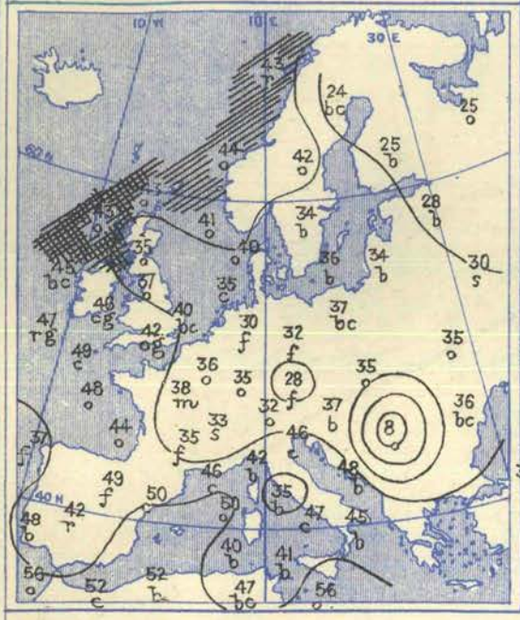
Temperature fallen considerably in our Islands, France, and the Netherlands, but risen in most other countries. Morning readings highest, 56° at Alicante, 54° at Tunis, 53° at Patras, and 52° at Oran; above 45° over southern Europe generally and also in the Scilly and Channel Islands. Lowest, (1) 16° at Hermanstadt, 21° at Odessa, and 28° at Archangel; (2) 29° at Loughborough, 31° at Parsonstown and 33° at Oxford. Remaining below 45° all day at many of the English and Irish stations, but rising to 50° at Scilly and 52° at Jersey; exceeding 60° in several parts of Spain and southern Italy and reaching 66° at Cagliari.

Wind strong to a gale from the Westward or North-Westward in Scandinavia and fresh from the same quarters in the Shetlands and Hebrides; light from the South-Westward in other parts of our own northern districts. Light from the Eastward or North-Eastward over the greater part of France, Spain, and the south of our Islands. Gale in Scandinavia moderating gradually later; no important change occurring elsewhere.

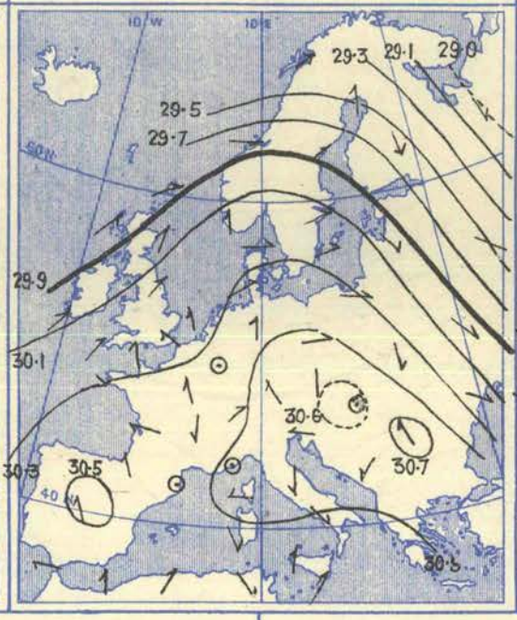
Barometer highest, 30·6 ins. and upwards to 30·4 ins. in an anticyclone lying over Ireland, England, and the greater part of central and southern Europe. Lowest, 28·4 ins. and less in a large and deep depression with its centre over Lapland. Depression subsequently moving away to the north-eastward and barometer rising rapidly in the north of Scandinavia; fall taking place in the west and south of our Islands.

Thursday, 24th January.

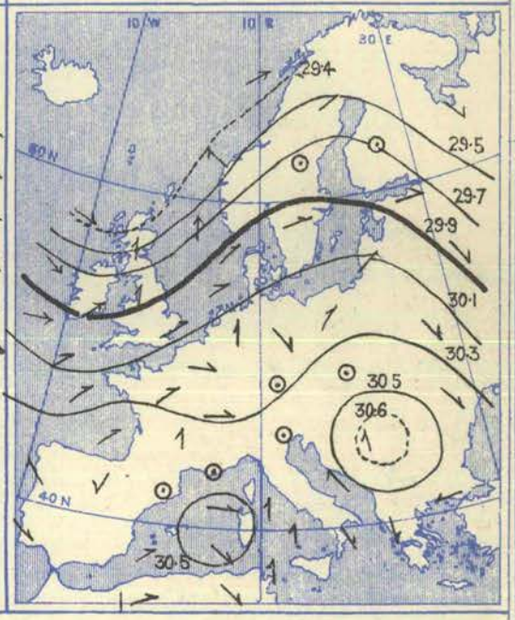
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent with fog in Germany and rain at Valencia (Ireland) as well as at Bodö ; snow falling at Belfort and Moscow. Fine over southern Europe as a whole, but rainy at Madrid. Rain falling later over the United Kingdom generally and snow in the north of Scotland. Thunder and lightning occurring at Newton Reigny and lightning only at Donaghadee.

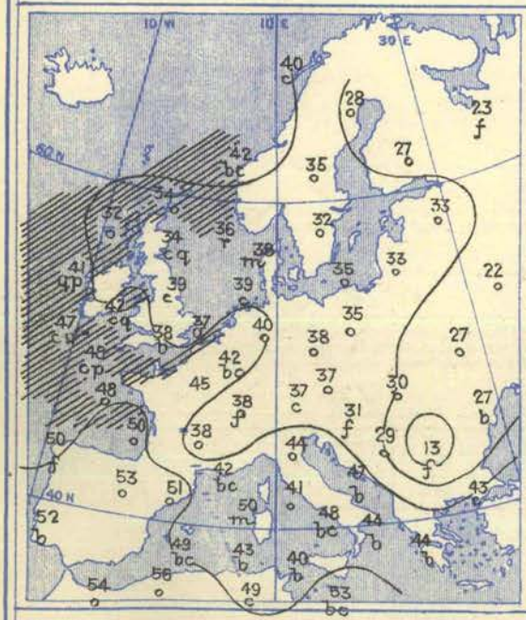
Temperature risen over England and Ireland, fallen in most other countries. Morning readings highest, 56° at San Fernando and Malta, 53° at Oporto and 52° at Oran and Algiers ; above 45° over the south-western parts of the United Kingdom generally. Lowest, (1) 8° at Hermanstadt ; (2) 24° at Uleaborg, 25° at Archangel and Kuopio and 28° at St. Petersburg. Rising during day to 45° and upwards in most parts of the United Kingdom, and to 50° and upwards on our extreme south-west coasts ; exceeding 60° at several of the Spanish and Mediterranean stations and reaching 64° at Bilbao.

Wind South-Westerly in the west and north of our Islands and also in Scandinavia and Denmark ; very strong in force in the Hebrides and the west of Norway. Light to fresh from the North-Westward in Russia. Light from the South-Eastward over England and the greater part of France ; Easterly or North-Easterly over the Spanish Peninsula ; variable in Italy. Subsequently veering to the South-Westward over England and to the Westward or North-Westward over Ireland and the west of Scotland.

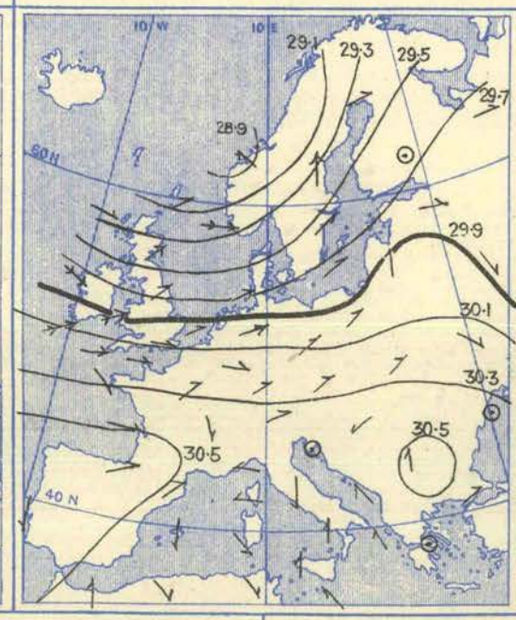
Barometer highest, 30·7 ins. and upwards over eastern Austria ; 30·3 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 29·0 ins. and less in a depression moving eastwards over northern Russia ; 29·8 ins. and less in another disturbance approaching our own northern coasts from the Atlantic. Latter system continuing to advance eastwards during day and barometer falling in the west and north of our Islands generally.

Friday, 25th January.

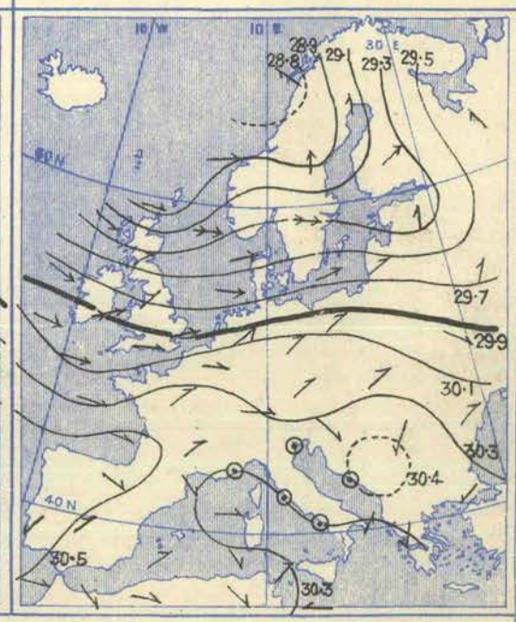
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over England and the Netherlands as well as over Spain, the Mediterranean, and southern Italy. Cloudy or dull in nearly all other parts of Europe, with passing showers on our western coasts, hail at Stornoway and Malin Head, and snow at Leith ; raining also in the south of Norway. Rain falling later over nearly the whole of western Europe, and snow in Scotland and Sweden. Lightning seen at Donaghadee at night.

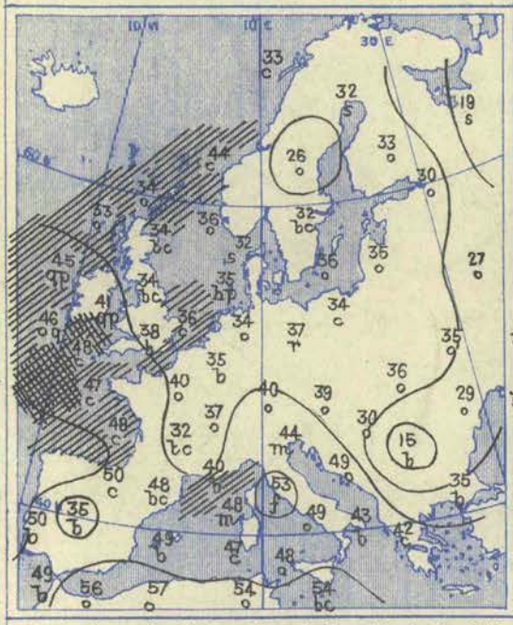
Temperature fallen in our Islands and Scandinavia ; risen in most other countries. Morning readings highest, 56° at Algiers, 54° at Oran, and 53° at Biarritz and Malta ; above 45° on our own south-west coasts. Lowest, 13° at Hermanstadt, 22° at Moscow, 23° at Archangel, below the freezing point in most parts of Russia and Austria, and very little above it in Scotland. Daily maxima below 40° in Scotland, but thermometer rising to 45° and upwards in England and Ireland and touching 50° at Scilly and Jersey, exceeding 60° at several of the Spanish and Mediterranean stations.

Wind strong to a gale from the Westward or North-Westward on our western coasts and moderate to strong from the South-Westward in most other parts of western Europe moderate from the South-Eastward in the west of Norway ; variable in all the more southern countries. Subsequently increasing to a gale from the Westward on several parts of our southern coasts and also in Denmark and the south of Scandinavia.

Barometer highest, 30·5 ins. and upwards over the Spanish Peninsula and the south-west of France as well as in eastern Austria, 30·3 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 28·9 ins. and less in a depression off the west of Norway. Depression subsequently moving north-eastwards, but secondary disturbance appearing off the north of Scotland in evening.

Saturday, 26th January.

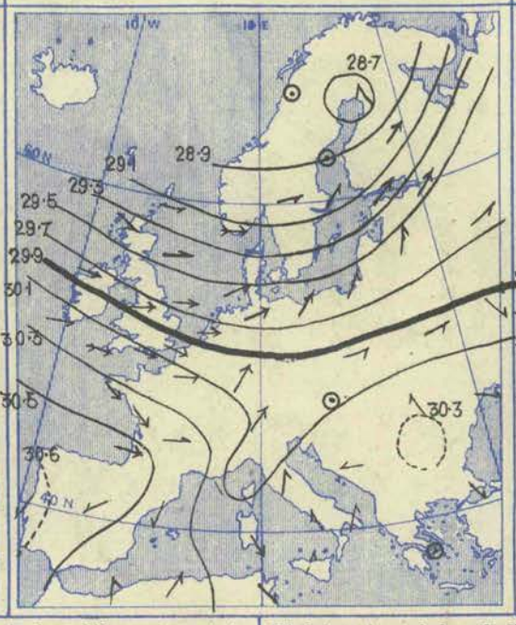
Temperature and Weather. 8 a.m.

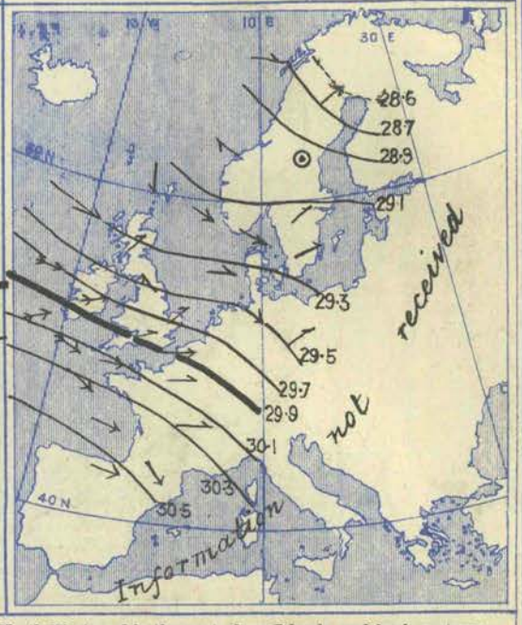


Weather in morning fine over the east of our Islands, the Netherlands, and the greater part of France and the Spanish Peninsula. Cloudy or dull elsewhere, with showers on our western and southern coasts, and hail or snow in the north of Ireland; snow falling also in several parts of Scandinavia, Denmark, and northern Russia. Rain, hail, or snow falling later over nearly the whole of western and central Europe.

Temperature fallen in most countries, but risen in Ireland, and also in Russia, Austria, and Italy. Morning readings highest, 57° at Algiers, 56° at Oran, and 54° at Malta; above 45° in the west of France and the extreme south-west of our Islands. Lowest, (1) 15° at Hermanstadt and 25° at Kharkov; (2) 19° at Archangel and 26° at Hernösand; below the freezing point in many parts of Scotland. Remaining below 40° all day in the north of Scotland, but rising to 50° or slightly above it in most parts of England and Ireland; exceeding 50° also in the west and south of France, and reaching 56° at Perpignan and 57° at Lisbon.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind strong to a gale from the North-Westward in the west of our Islands, and fresh or strong from the same quarter in the west and south of France; Westerly or South-Westerly over the eastern parts of the United Kingdom and the whole of northern and central Europe; strong in force in many places with a gale at Skudesnaes. Northerly or North-Easterly in Spain; calm or variable over Austria, Italy, Greece, and the south of Russia. Subsequently increasing to a gale from the Westward or South-Westward over the whole of Ireland and England.

Barometer highest, 30·6 ins. and upwards over Portugal and central Spain; 30·2 ins. and upwards in an anticyclone covering the whole of Spain and the Bay of Biscay and the greater part of France, and also in another system over south-eastern Europe. Lowest, 28·7 ins. and less in a depression with its centre over the north of Sweden; small secondary disturbance passing eastwards across western Europe during day. New and deep depression approaching the north of Scotland from the north-westward at night.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale ⟶⟶ = a gale; ⟶⟶ = a fresh to strong breeze; ⟶⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During nearly the whole week a large anticyclone covered all the more southern parts of Europe, the winds in those regions being consequently light and somewhat variable, and the weather mostly fair and dry. In the north-western and northern countries the conditions have been affected by large cyclonic systems, the centres of which have travelled in most cases eastwards across Scandinavia.

On Sunday the weather in these Islands was recovering from the effects of a depression which had traversed England on the following day and which afterwards moved away to Denmark and Russia. On the same night a new disturbance appeared off the west of Norway and subsequently travelled north-eastwards, the wind in its rear increasing to a gale from the North-Westward in the north of Scotland.

On Tuesday a far deeper depression, with minimum readings below 28·2 ins., advanced over the north of Scandinavia and occasioned fresh Westerly gales in Scotland, and later on strong Westerly to North-Westerly gales and heavy snowstorms in most parts of northern Europe. As the disturbance passed away a large anticyclone advanced steadily eastwards across the United Kingdom. This soon moved away however to central Europe, and on Thursday a new depression skirted our extreme northern coasts and subsequently passed across Scandinavia, its movement being attended by gales from the Westward (South-West to North-West) over nearly the whole of the United Kingdom, with rain over Ireland and England and considerable falls of snow in Scotland. At the close of the week small secondary disturbances were moving quickly eastwards across our Islands, and Westerly gales were setting in over north-western Europe generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	5·6	?	11	?	BRIGHTON	13·8	+ 0·8	23	+ 1
STRATHPEFFER SPA	3·9	− 5·1	7	−10	WORTHING	13·7	?	23	?
EDINBURGH	4·0	− 4·8	7	− 9	BOGNOR	14·5*	?	24*	?
MORPETH	0·0	?	0	?	WATERGATE (Emsworth)	10·8	?	18	?
NEWCASTLE-ON-TYNE	5·9	?	11	?	WESTBOURNE (Emsworth)	12·5*	− 1·3	21*	− 2
OSWALDKIRK (Yorkshire)	9·9	− 0·1	17	0	VENTNOR HOSPITAL	13·4	+ 0·4	22	+ 1
LOWESTOFT	18·5	?	31	?	SOUTHPORT	5·5	?	10	?
HOLLESLEY BAY	22·4	?	38	?	RHYL	12·0*	?	21*	?
SHEFFIELD	8·9	?	15	?	COLWYN BAY		?		?
WORKSOP	9·9	+ 0·5	17	+ 1	ABERDOVEY	10·7*	?	18*	?
THURCASTON (Leicestershire)	11·1	+ 0·8	19	+ 2	TENBY	5·4	− 9·4	9	−16
MARGATE	21·9	+ 9·9	37	+18	NEWQUAY	6·2	− 7·7	10	−12
BROADSTAIRS	24·2	?	40	?	TORQUAY	13·7	− 0·5	22	− 1
EASTBOURNE					GUERNSEY	9·4*	− 4·6	15*	− 7

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 5.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 2ND, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 26.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	22	38·7	29·8	34·5	3 below	0	− 7	53	+17	83	+ 2	153	−26
	1. SCOTLAND, EAST	54	18	38·5	29·9	34·4	3 below	0	− 8	53	+11	15	−21	199	−10
	2. ENGLAND, N.E.	49	26	39·9	30·7	35·5	3 below	0	− 9	46	+11	31	− 8	159	−24
	3. ENGLAND, EAST	56	25	41·0	29·8	35·7	2 below	0	− 9	44	+ 4	34	− 5	167	−36
	4. MIDLAND COUNTIES	57	22	40·1	30·6	35·6	3 below	0	−11	45	+ 5	33	−16	198	−10
	5. ENGLAND, SOUTH	56	22	42·8	31·9	37·6	2 below	2	−11	38	+ 7	54	− 5	138	−21
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	25	40·5	31·2	36·0	3 below	0	− 9	42	+12	42	− 8	130	−21
	7. ENGLAND, N.W.	50	25	40·8	32·6	36·9	2 below	0	−10	36	+ 7	38	−10	143	− 1
	8. ENGLAND, S.W.	53	19	43·0	33·5	38·4	3 below	3	−14	32	+ 9	63	−15	116	+ 1
	9. IRELAND, NORTH	51	21	42·3	32·6	37·6	3 below	1	−13	34	+ 9	64	− 3	100	−28
	10. IRELAND, SOUTH	52	25	42·8	33·0	38·1	5 below	2	−19	33	+14	89*	−13	84	−16
	—CHANNEL ISLANDS	53	33	46·7	38·2	42·6	2 below	20	− 4	11	+ 1	150	+32	41	− 9

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 26.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	16	4 more	24	− 1	5·1	− 1·1	5	− 5	9	− 8	27	− 7	11	− 3
	1. SCOTLAND, EAST	6	9	3 more	21	+ 2	2·8	− 0·3	9	− 4	16	− 6	31	−18	12	− 7
	2. ENGLAND, N.E.	6	5	1 more	18	0	2·2*	0·0	12	+ 3	20	+ 5	26	−15	13	− 6
	3. ENGLAND, EAST	3	3	2 less	15	− 5	1·8	− 0·4	22	+ 7	36	+11	73	+ 4	22	+ 2
	4. MIDLAND COUNTIES	5	6	1 more	21	+ 2	3·5	+ 0·8	15	+ 2	24	+ 4	44	− 6	16	− 2
	5. ENGLAND, SOUTH	4	3	2 less	19	0	2·5	− 0·5	20	+ 5	32	+ 8	75	+11	24	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	4 less	23	0	4·6	− 1·9	16	+ 5	27	+ 8	39	− 6	14	− 3
	7. ENGLAND, N.W.	5	7	1 more	23	+ 3	2·9	− 0·6	13	+ 2	22	+ 4	52	− 3	16	− 1
	8. ENGLAND, S.W.	5	8	1 less	22	+ 1	5·0	+ 0·4	18	+ 4	29	+ 6	65	+ 5	24	+ 2
	9. IRELAND, NORTH	6	12	5 more	25	+ 1	3·9	+ 0·2	16	+ 3	26	+ 5	62	+11	22	+ 3
	10. IRELAND, SOUTH	5	7	3 less	25	+ 2	4·5*	− 0·2	20	+ 5	33	+ 8	64	0	23	0
	— CHANNEL ISLANDS	7	8	1 more	25	+ 2	3·7	− 0·1	18	− 4	28	− 6	83	+ 7	27	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was wintry and unsettled; showers of cold rain, sleet, or snow were very prevalent, especially in the west and north. Thunderstorms were experienced on Wednesday at several of the northern and north-eastern stations, and also at Jersey.

Temperature was below the mean, the deficit ranging from 2° to 3° in several English districts to 5° in Ireland S. The highest of the maxima were registered at the commencement of the period, and ranged from 57° in the Midland Counties and 56° in England S. and E., to 49° in Scotland N. and England N.E. During the remainder of the week the daily maxima were often below 40°. The lowest of the minima were mostly recorded during the middle or latter part of the week, when they ranged from 18° in Scotland E. and 19° in England S.W. to 26° in England N.E. and to 33° in the Channel Islands.

Rainfall was rather less than the mean in England S.W., S., and E., as well as in Scotland W., and Ireland S. In all other districts there was an excess, that in Scotland N. and Ireland N. being considerable.

Bright Sunshine exceeded the mean in most parts of the Kingdom, but was deficient in Scotland N. and E., and also in the Channel Islands. The percentage of the possible duration ranged from 36 in England E., 33 in Ireland S., and 32 in England S., to 20 in England N.E., 16 in Scotland E., and 9 in Scotland N.

Barometer and Wind.—At the commencement of the week the centre of a very deep depression lay off the north-east of Scotland, and the barometer being relatively high over Spain, strong North-Westerly or Westerly gales prevailed in all parts of our Islands, and in the north of Ireland the North-Westerly squalls experienced during Sunday were of unusual severity. By the 28th this system was disappearing over Germany, but during the remainder of the week many subsidiary depressions, mostly of irregular shape and of no great depth, appeared to the eastward of the United Kingdon, causing a continuance of Northerly or North-Westerly winds, varying in force and blowing hard over the Irish Sea, with showers of sleet or cold rain. On Friday night a depression, which had advanced from the northward, filled up suddenly over the North Sea. On Saturday morning a small but well defined disturbance appeared over the Bristol Channel. This system moved southwards to Brittany during the day, and the winds over our Islands became Easterly or North-Easterly.

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* This value has been altered owing to the receipt of further information.

II.—DATA from which the SUMMARY on page 25 has been calculated.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head	39	27	36·1	29·9	33·1	− 5·8	0	62	7	1·20	+ 0·38	*	*	*	*
	Stornoway	42	27	39·3	30·6	35·1	− 3·8	0	48	7	1·11	+ 0·09	7·3	− 3·6	13	− 6
	Wick	42	25	39·0	29·1	34·3	− 3·5	0	54	7	2·21	+ 1·72	*	*	*	*
	Lairg Ⓢ	47	22	39·4	27·5	33·7	− 1·7	0	58	6	0·89	+ 0·10	*	*	*	*
	Glencarron Ⓢ	45	25	38·3	29·0	33·9	− 3·3	0	57	7	2·28	+ 0·33	*	*	*	*
	Fort Augustus Ⓢ	44	25	38·4	31·4	35·0	− 3·1	0	49	7	1·76	+ 0·75	2·0	− 5·1	4	− 8
	Fort William Ⓢ	49	29	40·5	31·4	36·1	− 2·8	0	41	7	1·42	− 0·66	4·4	− 5·1	8	− 8
1. SCOTLAND, E.	Nairn	54	25	41·1	30·6	36·1	− 1·5	0	41	6	0·92	+ 0·52	*	*	*	*
	Aberdeen	43	26	38·0	30·4	34·4	− 3·5	0	53	7	1·29	+ 0·76	11·1	− 4·1	19	− 7
	Braemar Ⓢ	39	27	36·5	30·4	33·6	− 0·9	0	59	6	0·98	+ 0·29	*	*	*	*
	Ochtertyre Ⓢ	44	25	39·4	30·3	35·0	− 2·4	0	49	4	0·77	− 0·23	*	*	*	*
	Leith	45	25	39·6	30·6	35·3	− 4·0	0	47	6	0·66	+ 0·27	*	*	*	*
	Marchmont Ⓢ	39	18	36·3	27·0	31·8	− 5·1	0	71	5	0·91	+ 0·31	10·3	− 2·8	18	− 4
2. ENGLAND, N.E.	Alnwick Castle	46	27	40·8	31·4	36·3	− 1·7	0	40	6	1·07	+ 0·55	*	*	*	*
	Durham	46	26	37·6	28·9	33·4	− 4·0	0	60	7	0·44	+ 0·04	14·4	+ 0·4	24	+ 1
	Shields	46	27	39·4	30·0	34·9	− 4·0	0	50	6	0·78	+ 0·40	*	*	*	*
	Scarborough Ⓜ	46	27	40·2	31·9	36·3	− 2·4	0	40	5	0·42	− 0·02	10·1	?	17	?
	Spurn Head	48	31	41·1	32·4	36·9	− 1·5	0	36	4	0·11	− 0·22	*	*	*	*
	Fulbeck (Lincolnshire)	49	27	40·1	29·6	35·1	− 2·0	0	48	5	0·37	− 0·01	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	28	40·7	30·4	35·8	− 1·9	0	43	4	0·14	− 0·29	22·7	+ 9·0	37	+14
	Yarmouth	51	25	39·3	29·3	34·5	− 3·2	0	53	3	0·33	− 0·09	*	*	*	*
	Geldeston	53	25	41·7	28·5	35·4	− 3·1	0	46	3	0·24	− 0·11	24·8	+10·0	40	+16
	Cambridge	56	26	43·0	29·2	36·4	− 1·8	3	48	3	0·21	− 0·13	14·6	+ 0·1	24	+ 1
	Felixstowe	53	28	40·1	31·1	35·8	− 2·8	0	43	?4	0·28	?	22·1†	?†	36†	?†
	Rothamsted	53	28	41·2	30·5	36·1	− 1·6	0	41	3	0·37	− 0·13	21·4	+ 8·1	35	+13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	29	40·7	31·7	36·4	− 1·8	0	39	4	0·26	− 0·12	*	*	*	*
	Loughborough	57	25	41·1	30·4	36·0	− 2·2	0	42	6	1·02	+ 0·56	*	*	*	*
	Colly Weston (Stamford)	51	25	40·9	30·3	35·8	− 1·9	0	43	3	0·39	?	*	*	*	*
	Cheadle Ⓜ	49	24	37·4	29·5	33·6	− 3·5	0	59	6	0·97	+ 0·39	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	51	29	39·0	31·1	35·2	− 3·2	0	48	5	0·73	+ 0·25	7·7	?	12	?
	Churchstoke Ⓜ	49	25	39·5	30·3	35·1	− 3·0	0	48	6	0·89	+ 0·29	12·2	− 2·2	20	− 2
	Hereford (Belmont) Ⓜ	53	28	41·0	31·7	36·5	− 2·5	0	39	5	0·61	+ 0·08	*	*	*	*
	Cirencester	51	22	40·6	29·4	35·2	− 2·9	0	48	5	0·29	− 0·34	10·1	− 4·1	16	− 7
	Oxford	52	28	41·0	30·9	36·2	− 2·7	0	41	4	0·35	− 0·09	19·0	+ 5·6	31	+ 8
5. ENGLAND, S.	London	55	28	42·4	31·3	37·1	− 2·6	1	39	2	0·20	− 0·24	10·9†	+ 3·2†	18†	+ 6†
	Swarraton (Alresford) Ⓜ	53	22	40·3	29·7	35·2	− 3·0	0	48	4	0·29	− 0·35	*	*	*	*
	Dungeness	51	26	44·3	30·7	37·8	− 1·7	6	43	4	0·42	+ 0·04	21·2	?	34	?
	Hastings (St. Leonards)	52	27	42·9	31·8	37·6	− 2·2	3	38	3	0·14	− 0·43	23·8	+ 7·2	38	+12
	Southampton	56	28	44·6	32·1	38·6	− 1·7	7	38	5	0·41	− 0·24	20·9	+ 5·9	34	+10
	Portland Bill	52	33	45·1	36·3	40·9	− 1·0	9	24	5	0·22	?	*	*	*	*
	Shaftesbury Ⓜ	51	27	40·3	31·1	35·9	− 2·3	0	43	7	0·61	− 0·06	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	48	29	40·7	31·0	36·0	− 4·1	0	42	7	1·11	− 0·64	*	*	*	*
	Glasgow Ⓢ	48	28	39·7	31·8	35·9	− 3·1	0	43	3	0·35	− 0·48	12·8	+ 4·8	22	+ 8
	Glenlee Ⓢ	49	25	39·4	29·1	34·5	− 3·3	0	53	3	0·90	− 0·50	*	*	*	*
	Douglas (Isle of Man)	51	29	42·2	32·8	37·7	− 3·0	1	34	4	0·94	+ 0·04	18·3	+ 3·6	31	+ 7
7. ENGLAND, N.W.	Newton Reigny	43	25	37·0	28·1	32·7	− 3·5	0	65	5	0·60	?	8·4	?	14	?
	Stonyhurst	47	29	38·6	31·6	35·2	− 3·0	0	48	4	0·86	− 0·02	19·2	+ 8·2	32	+14
	Blackpool Ⓜ	48	27	41·4	32·6	37·2	− 1·6	0	34	6	0·58	− 0·30	15·5	+ 3·7	26	+ 7
	Manchester (Prestwich)	49	25	42·7	30·6	36·9	− 1·7	2	42	5	0·62	− 0·02	10·6	?	18	?
	Liverpool Obsy. (Bidston)	47	32	40·6	34·3	37·6	− 1·9	0	31	6	0·62	+ 0·15	5·3	?	9	?
	Llandudno Ⓜ	50	34	42·4	35·4	39·0	− 2·6	1	24	5	0·85	+ 0·28	8·4	− 5·6	14	− 9
	Holyhead	50	34	43·0	35·9	39·6	− 2·3	3	23	5	0·92	+ 0·25	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	19	40·0	30·1	35·3	− 3·3	0	47	6	1·52	+ 0·47	*	*	*	*
	Pembroke	50	34	44·0	36·6	40·5	− 1·9	6	22	4	1·40	+ 0·65	16·2	+ 0·8	26	+ 1
	Clifton	50	29	41·4	33·2	37·5	− 2·7	0	32	4	0·28	− 0·42	*	*	*	*
	Bath	53	25	43·0	31·1	37·3	− 3·4	3	41	4	0·27	?	13·8	?	22	?
	Arlington (N. Devon)	?	?	?	?	?	?	?	?	6	1·00	− 0·01	*	*	*	*
	Cullompton Ⓜ	51	24	43·7	31·3	37·8	− 2·6	5	41	4	0·65	− 0·08	14·1	+ 0·6	23	+ 2
	Falmouth	52	33	44·5	36·7	40·8	− 2·8	7	22	7	0·95	− 0·11	23·1	+ 6·7	37	+11
	Plymouth	52	31	44·1	35·3	39·9	− 2·6	6	26	6	0·54	− 0·26	20·0	+ 4·8	32	+ 9
9. IRELAND, N.	Malin Head	45	32	41·9	35·6	38·9	− 2·8	0	22	7	1·12	?	*	*	*	*
	Londonderry	50	25	43·4	31·9	37·9	− 2·5	4	38	6	1·59	+ 0·81	*	*	*	*
	Edenfel (Omagh)	50	27	41·0	30·6	36·0	− 2·5	0	42	7	1·29	+ 0·59	*	*	*	*
	Blacksod Point	48	30	43·1	34·0	38·7	− 4·2	3	30	7	1·48	?	*	*	*	*
	Markree Castle	51	21	43·1	30·4	37·0	− 3·0	3	43	6	1·66	+ 0·88	20·3	+ 7·3	34	+13
	Armagh	48	29	40·7	31·7	36·4	− 3·1	0	39	5	0·59	+ 0·01	10·9	− 2·1	18	− 3
	Donaghadee	45	31	42·7	33·7	38·4	− 2·3	2	31	5	0·64	+ 0·04	*	*	*	*
10. IRELAND, S.	Dublin	51	29	41·6	33·0	37·5	− 4·6	0	32	3	0·47	− 0·02	18·1	+ 2·6	30	+ 5
	Parsonstown	51	25	41·7	29·6	35·9	− 4·3	0	43	5	0·61	+ 0·01	23·4	+ 9·3	38	+15
	Kilkenny	50	26	41·7	31·7	36·9	− 4·5	0	36	4	0·46	− 0·23	*	*	*	*
	Roche's Point	52	32	43·3	36·1	39·8	− 3·8	4	22	3	0·31	− 0·78	*	*	*	*
	Valencia	51	30	45·3	36·1	40·9	− 3·8	9	24	6	1·11	− 0·20	18·5	+ 3·5	30	+ 6
	Killarney	52	25	43·8	30·2	37·3	− 6·1	5	44	6	0·81	− 0·53	*	*	*	*
	Foynes	46	29	42·5	34·4	38·6	− 4·5	1	28	5	0·76	− 0·01	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	34	47·0	39·1	43.2	− 2·6	21	8	7	0·68	− 0·05	25·3	?	40	?
	Jersey	52	33	46·4	37·3	42·0	− 0·8	12	13	7	0·83	+ 0·17	17·5	− 1·7	27	− 2

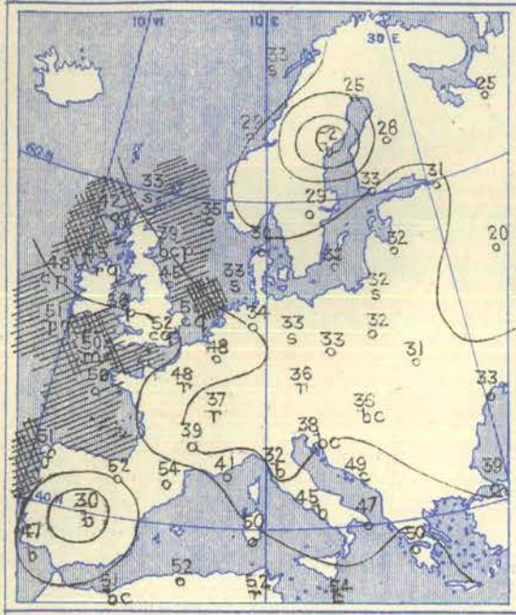
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

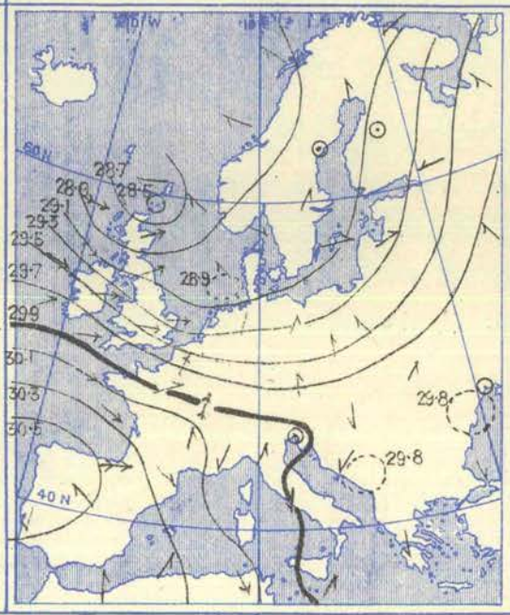
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 27th January.

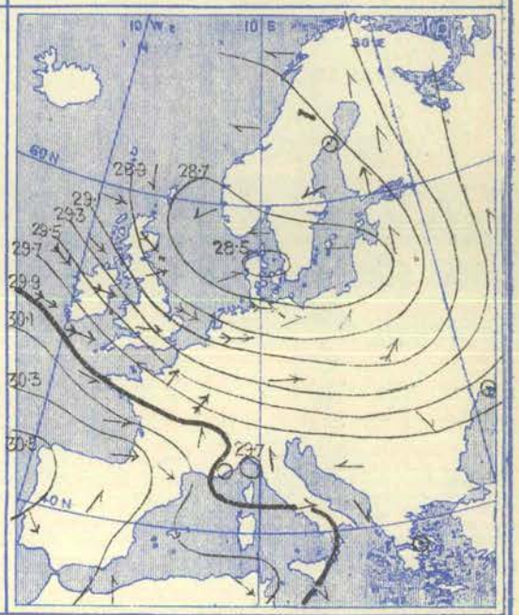
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m



Weather in morning very wild and rough all over the United Kingdom, unsettled over the North Sea and Scandinavia, rainy over the central and southern parts of France, and in western Germany, snow at Berlin; fair but dull over Russia, fine and bright over the southern half of the Spanish Peninsula and the southern portion of the Mediterranean. Exceedingly unsettled and stormy over the British Islands, France and Germany all day, but rainfall in the British Islands general, but not great.

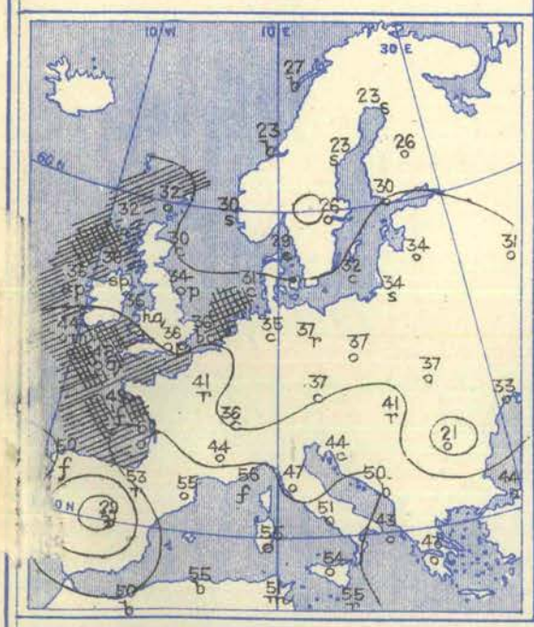
Temperature risen temporarily all over the west and north-west of Europe, fallen over Austria, Germany, Russia, and Scandinavia. Morning readings highest, above 50° over most of the southern and western parts of the Mediterranean, 51° to 50° on our south-west coasts and at Holyhead, and above 40° all over England and the greater parts of Scotland and France. Lowest, above 35° over the major part of central Europe, 29° at Stockholm, 23° at Karlstad, 20° at Moscow and Uleaborg, and −2° at Hernösand. Giving way greatly later all over the British Islands and their neighbourhood, but rising over Russia.

Wind (1) Westerly to North-Westerly over the British Islands and the Channel, very strong, a gale in places, and increasing rapidly in force; South-Easterly, moderate on the eastern shores of the North Sea. South-Easterly to Easterly in the west of Norway; (2) South-Westerly over Russia and most of Germany, Westerly over the western and northern parts of France. (3) North-Westerly and Northerly over the Mediterranean, North-Easterly at Lésina. Very severe gales, and exceedingly severe squalls felt later over the British Islands, the Channel and North Sea, and South-Westerly gales in the east of France, Southerly winds, increasing in force, over Russia.

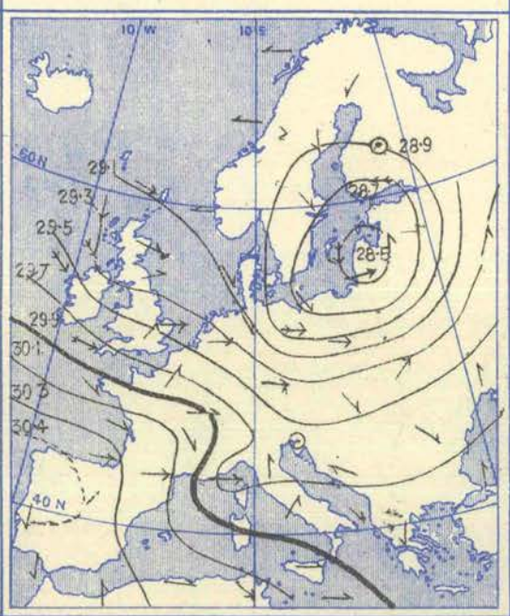
Barometer in morning highest, 30·5 ins. and more to 30·1 ins. over the Spanish Peninsula and south-western Europe; 29·9 ins. to 29·8 ins. over the south-east of Russia. Lowest, 28·5 ins. in a depression between Caithness and the Orkneys; 28·9 ins. in another shallow system near Fanö. Very deep depressions later over the western Baltic and near to Skudesnaes, a secondary approaching our north-west coast, and another depression developing off the Riviera.

Monday, 28th January.

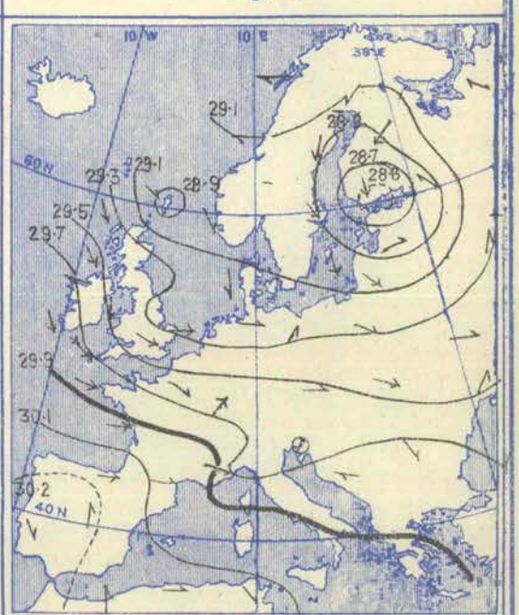
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still very wild and rough over Ireland, England, and the north of France. Rough and unsettled also over the Baltic and north Germany. Fine over the Spanish Peninsula on the one hand and over the north-west of Norway on the other. Rain and snow over our Islands and the Baltic during the day, but no great change over Spain and the north of Norway.

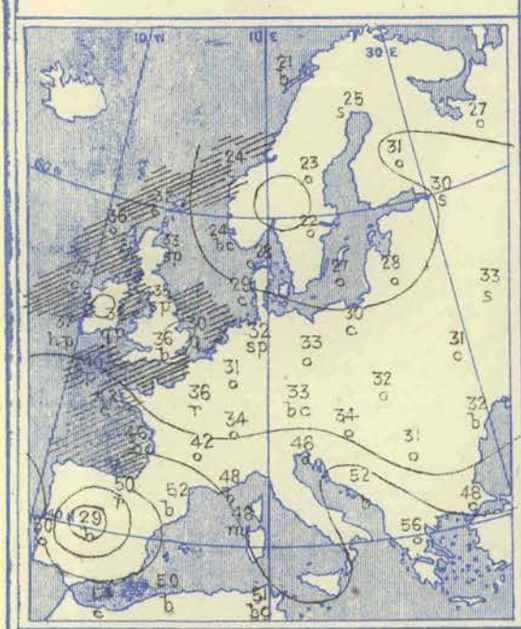
Temperature falling, except over Russia, Central Europe and Italy, rising in those regions. Morning readings highest, 56° at Nice and Leghorn, 55° at Algiers, 49° at Brest, 44° at Valencia; above the freezing point over Central Europe and Russia. Lowest, 19° at Karlstad, 23° at Christiansund and Haparanda, 26° at Kuopio. Falling over north-western and northern Europe, also rising over the Mediterranean, and touching 61° at Algiers.

Wind (1) North-westerly in Ireland, Westerly over England, strong breeze to a hard gale in force; (2) Northerly (a gale) over the Baltic, Westerly at Memel, Southerly (light) at Moscow; (3) North-Westerly over the central parts of the Mediterranean, South-Westerly at Naples, Southerly at Leghorn. Light and anticyclonic over Spain, Easterly in the north-west of Norway. Veering northwards at our western and northern stations later; continuing very rough over our Islands and the Baltic as well as over the north-eastern parts of the Mediterranean.

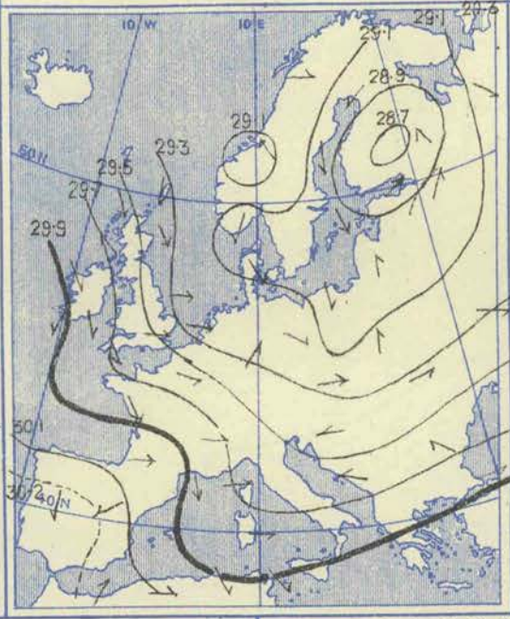
Barometer highest, 30·4 ins. to 30·2 ins. over the Spanish Peninsula, and exceeding 29·9 ins. over the west and south-west of France as a whole. Lowest, 28·5 ins. and less in a depression near Riga, 29·2 ins. and less in another over the south and south-west of Scotland; about 29·6 ins. in another over the Gulf of Genoa. The Baltic depression moving north-east later; a new disturbance appearing over the Shetlands, and secondaries over the North Sea and England.

Tuesday, 29th January

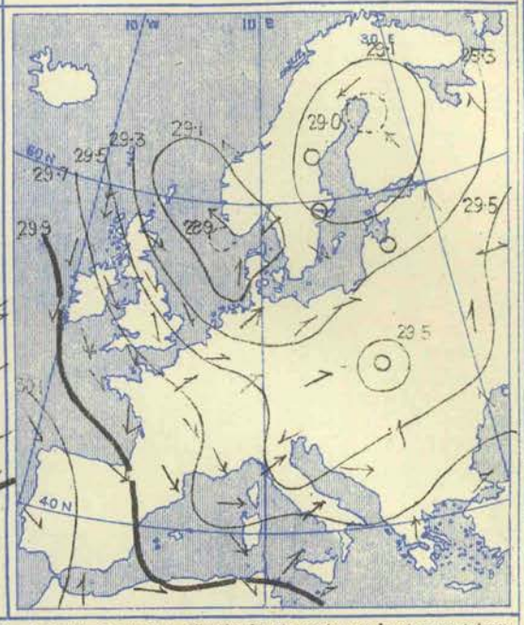
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still very unsettled over the British Islands and their neighbourhood, and over northern Europe; not at all quiet over the Riviera and south-west of France. Cold showers (snow and rain) later in all but the south-eastern parts of the Kingdom, but a good deal of bright sunshine in the south; showery at many of the continental stations also, much lightning in the west of our Islands.

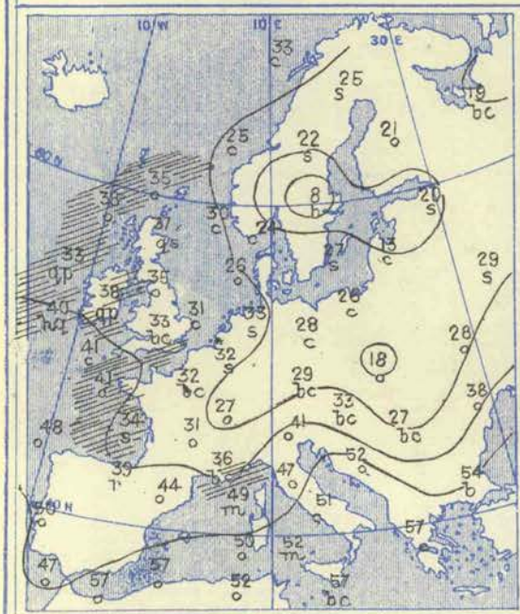
Temperature fallen generally over western and north-western Europe, risen over the more central countries and Russia. Morning readings highest, 54° to 50° on the coasts of Algeria and the Spanish Peninsula, 42° at Brest, 40° at Scilly, 33° at Kharkov and Moscow, 31° at Kuopio. Lowest, 11° Fahr. at Karlstad, 17° at Faerder, 22° at Stockholm, 27° at Wisby, 30° at Loughborough, 27° at Parsonstown. Rising during day to 45° at Scilly, and upwards of 40° on many parts of our western coasts—not exceeding 39° in London or 21° at Faerder.

Wind Northerly, fresh in Scotland, North-Westerly to Northerly, strong to a gale at our western stations, Westerly along our east coasts and over France; North-Westerly to Westerly over the Mediterranean. A complete cyclonic circulation of light to strong winds over Finland. Southerly breezes in Russia. Blowing hard fitfully on some of our north-western coasts during day, continuing strong in many parts of our Islands, and rising again from South-West and West over the Riviera.

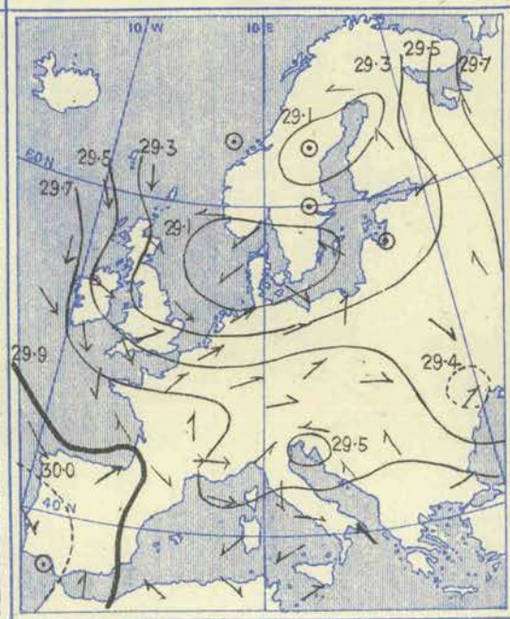
Barometer highest, exceeding 30·2 ins. over the south-west of Spain; 30·0 ins. and more over the southern side of the Mediterranean, 29·8 ins. and more over the west of Ireland. Lowest, about 28·7 ins. in a depression over Finland, 29·1 ins. and less in a secondary over Denmark and another near Christiansund, and below 29·3 ins. over the North Sea. Various shallow secondaries in places. No material change later but barometer falling over Portugal and west of Spain.

Wednesday, 30th January.

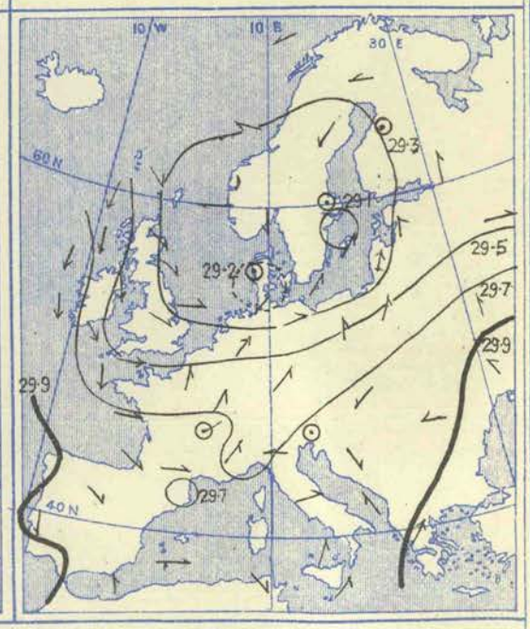
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at our eastern and some of our southern stations, also over central Europe and the greater part of the Mediterranean; snow, hail, and cold rain reported in many parts of Ireland and Scotland; also over Finland and the north of Russia, dull weather in the north of Italy. Cold showers later in many parts of our Islands, the western and northern parts of France and in north Germany, the amounts being considerable in the south-west of France, and in some localities over the British Islands, at Bilbao, and at Utrecht.

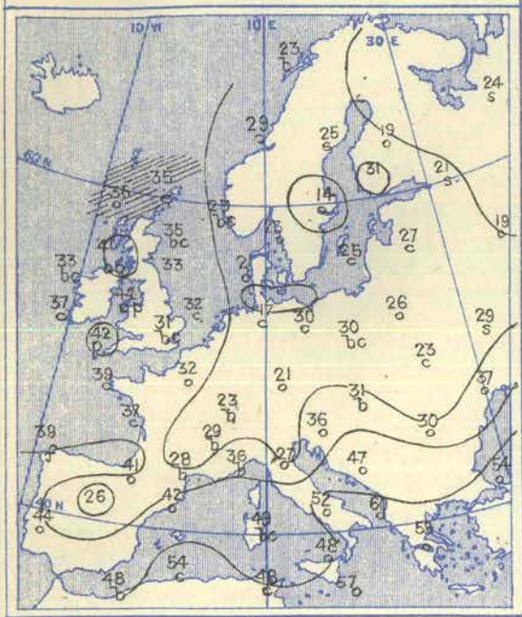
Temperature fallen, especially over England, where the morning readings were low for the time of year. Morning readings highest, 57° at Algiers and Oran, 50° at Lisbon, 41° at Scilly, 40° at Valencia, 38° at Holyhead and Stornoway. Lowest, 19° at Archangel, 20° at St. Petersburgh, 22° at Hernösand; but 3° Fahr. at Karlstad, 8° at Stockholm, 13° at Riga, and below the freezing point all over central Europe. Rising later to 46° at Dungeness, 43° at Valencia, and 40° in London; not changing much on the Continent.

Wind Northerly and North-Westerly in our Islands, and still blowing hard over the Irish Sea. South-Westerly to Southerly in Germany, very variable, and light (but cyclonic) over northern Europe. A cyclonic circulation of very strong winds over the north-eastern parts of the Mediterranean also. The latter circulation becoming less strong later, but very little general change elsewhere.

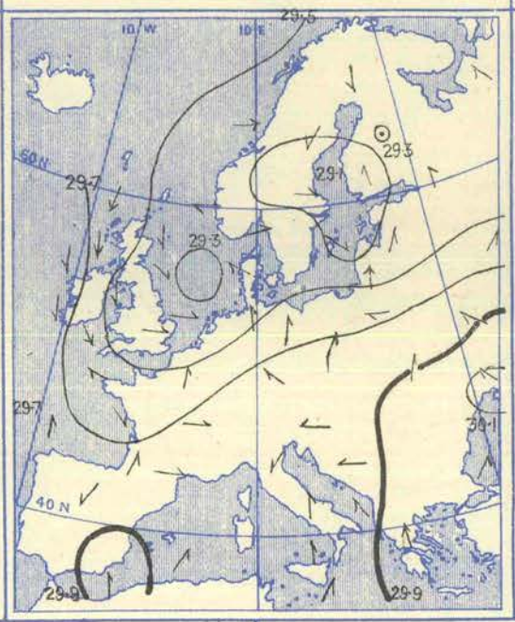
Barometer (1) highest, 30·0 ins. and more to 29·9 over Spain; (2) 29·9 ins. and more over Greece; and (3) 29·7 ins. and more to 29·6 ins. over the north of Russia. Lowest, 29·0 ins. and less to (1) 29·1 ins. in complex depressions over northern Europe, the Baltic and eastern shores of the North Sea; (2) 29·5 ins. and less to 29·6 ins. over the north of Italy, and the northern parts of the Mediterranean and Adriatic; (3) 29·37 ins. at Odessa. Rising later over the south of Russia as well as over the extreme north-east of Europe, changing little elsewhere

Thursday, 31st January

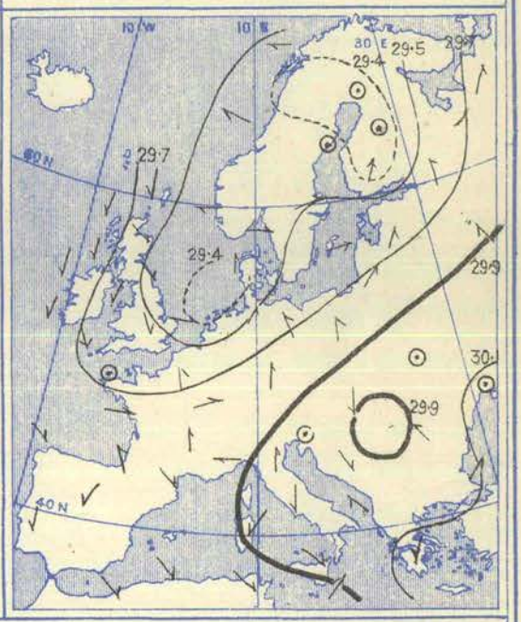
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very much improved since Tuesday, but cold showers still reported on many parts of both our western and eastern coasts; in other parts sky clear or nearly so. Further falls of snow or cold rain at most of our northern and eastern stations, and in several parts of the Continent—most generally over Scandinavia. Hail at Jersey.

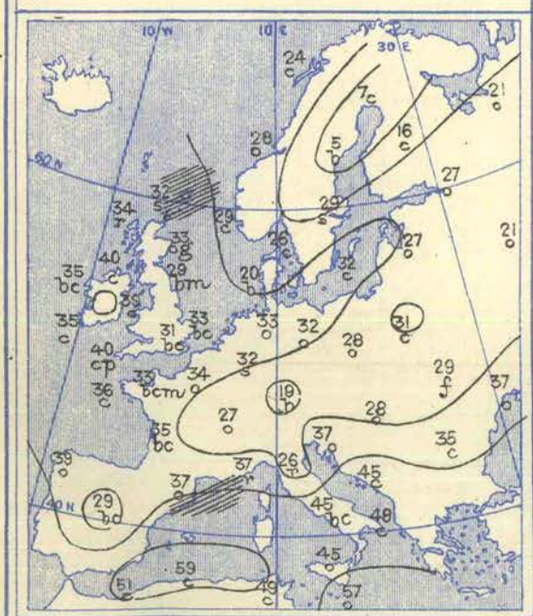
Temperature not much changed from that of yesterday, and consequently still low for time of year over western Europe. Morning readings highest, 57° at Malta, 54° at Algiers, 42° at Scilly, 41° at Malin Head. Lowest, 14° at Uleaborg, 19° at Moscow, 29° at Kharkov and Kieff, and below freezing point all over central Europe; 30° or 31° at our own inland stations. Rising later to 40° or more at many of our western and southern stations, to 46° at Scilly and Jersey, 50° at Nice, 61° at Brindisi, 68° at Palermo.

Wind in our Islands Northerly to Westerly in direction and strong at some western stations; Westerly to South-Westerly (light) in the north of France, Southerly (moderate) over Germany. A cyclonic circulation of winds, fresh to a gale in force, over the Gulf of Finland; anticyclonic circulation over south-western and south-eastern Europe. Moderating in our Islands later, and the anticyclonic form of circulation ceasing over Spain and the south of Russia.

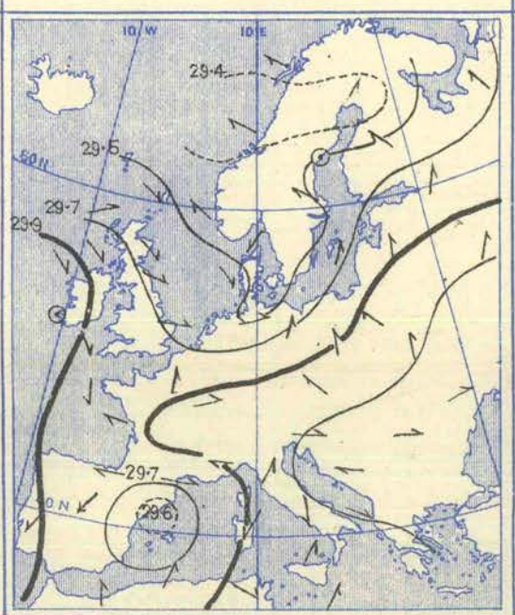
Barometer in morning highest, (1) 30·1 ins. and more to 29·8 ins. over the south-eastern parts of Europe; (2) 29·9 ins. to 29·7 ins. over Spain; (3) 29·7 ins. and more off the western parts of Ireland. Lowest, 29·1 ins. and less to 29·3 ins. over the Baltic, and about 29·3 ins. over the North Sea. Rising all day in our Islands, and readings over Europe becoming more uniform.

Friday, 1st February.

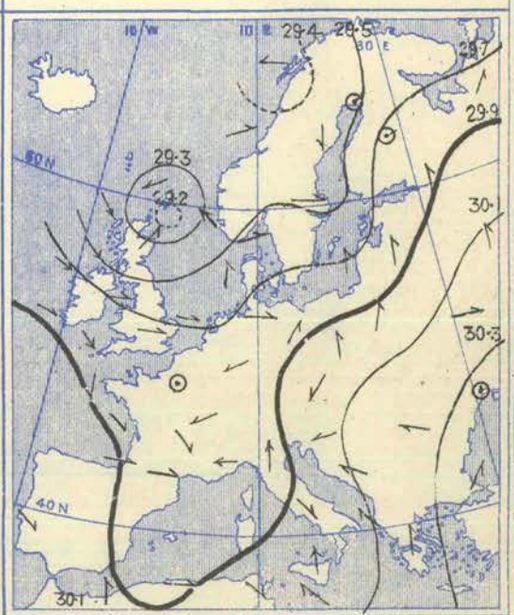
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair but dull over Russia and most parts of Scandinavia, fine and bright in many parts of Spain, France, and the British Islands; a few showers still reported at Scilly. Rain, hail, or snow reported later all over our islands, except in the extreme south-east, in considerable quantity at several of our stations; a large amount over the southern parts of France and smaller quantities over the Baltic.

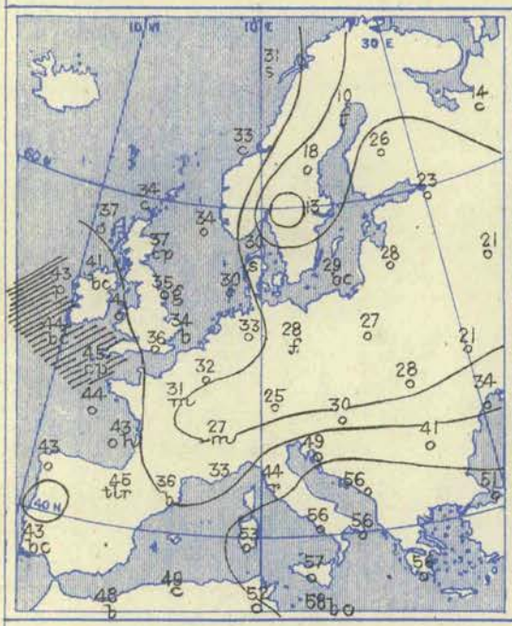
Temperature fallen in Ireland, England, Scotland, and at Haparanda. Morning readings highest, 59° at Algiers, 40° at Lorient, Scilly and Malin Head, 39° at Holyhead. Lowest, 5° at Hernosand, 7° at Haparanda, much below the freezing point over central Europe; 26° at Parsonstown, 26° to 28° over the inland parts of England, 34° at Paris. Rising later to 46° in the West of Ireland, 47° at Jersey, 48° at Lorient and Nice, 54° at Lisbon, 66° at Algiers.

Wind (1) Northerly in Ireland, North-Westerly over England, Westerly in Scotland, Southerly over Germany, South-Easterly in Norway; (2) Easterly (brisk) in the south of France. Increasing later from North-West on our west and north-west coasts, from South in the Gulf of Bothnia, from South-East on the eastern shore of the North Sea, and from East in south of France; blowing a gale at Nice.

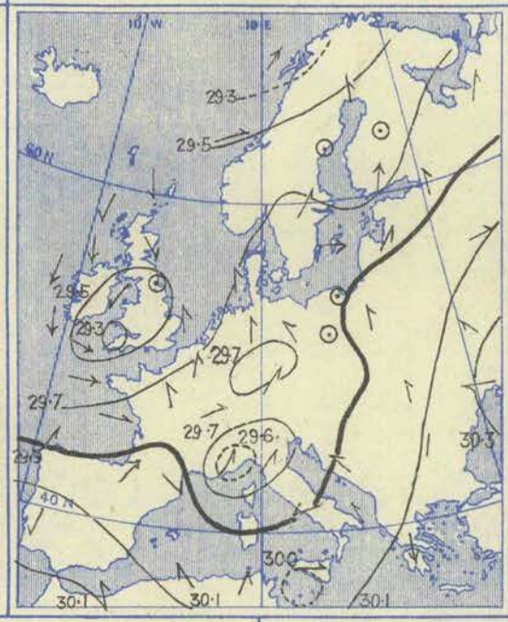
Barometer highest, 30·1 ins. and more over south-eastern Europe, and 29·9 ins. and more over the west and south of Ireland. Lowest, 29·4 ins. and less to 29·5 ins. in a depression of irregular form over Scandinavia and Holstein, about 29·5 ins. in a smaller and deeper system near Barcelona. New depression advancing later to the north-east of Scotland from the north-westward and growing deeper; that near Barcelona moving north-eastward to Toulon.

Saturday, 2nd February.

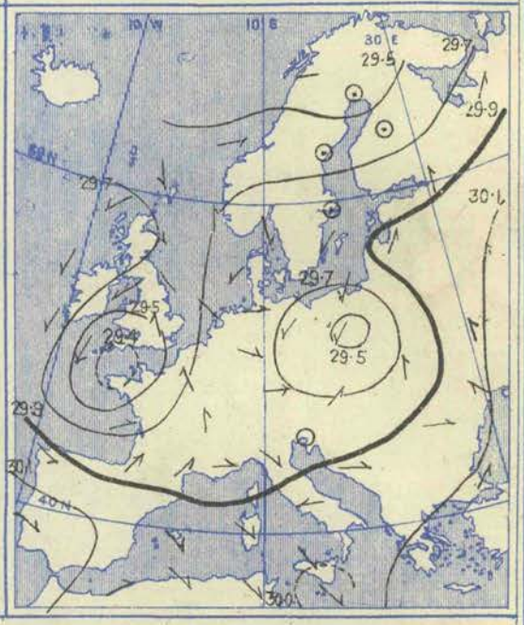
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the southern half of Russia, as well as over the greater part of Scotland and Ireland, dull and unsettled over England, with rain and snow in many places; snow in Finmark, thunder, lightning, hail and rain in the south-west of France. Snow or rain in many parts of our Islands during the day, the largest amount being 0·31 ins. at Dungeness, much rain in the south-west of France and some at Corunna.

Temperature risen decidedly over the British Islands. Morning readings highest, (1) 58° at Malta, 53° at Cagliari; (2) 45° at Biarritz and Scilly, 44° at Valencia, 41° at Holyhead and Malin Head. Lowest, 5° Fahr. at **Karistad, 10° at Haparanda, 13° at Stockholm**, and much below the freezing point over **eastern-central Europe; 33° at Loughborough, and 39° at Parsonstown. Rising but little during day, and falling again considerably as night** came on.

Wind light and anticyclonic from South-East and South-West over the southern half of Russia, anticyclonic over Spain also. Stronger and cyclonic from between South-South-West and South-South-East over England, and from the Northward over Ireland and the west of Scotland. A separate cyclonic circulation found over the northern part of the Mediterranean, blowing a gale at Sanguinaire. A new system seen over south Germany at night; that in the far south breaking up.

Barometer in morning (1) 30·4 ins. to 30·2 ins. over the southern half of Russia; (2) 30·1 ins. and more to 30·0 ins. over Spain. Lowest, 29·7 ins. and less in a shallow depression over Germany; (2) 29·6 ins. and less in another over the Riviera; (3) 29·3 ins. and less to **29·4 in another over the Bristol Channel and south-west of England.** Latter disturbance moving southwards to Brittany later; the German system moving north-eastwards and growing deeper; that over the Riviera filling up. **Pressure giving way over the Black Sea.**

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	3·9	− 6·1	7	−11	BRIGHTON	21·3	+ 6·3	34	+10
STRATHPEFFER SPA	7·9	− 3·3	14	− 6	WORTHING	24·5	?	40	?
EDINBURGH	6·1	− 4·5	11	− 7	BOGNOR	23·7*	?	38*	?
MORPETH	4·7	?	8	?	WATERGATE (Emsworth)	22·2	?	36	?
NEWCASTLE-ON-TYNE	12·7	?	21	?	WESTBOURNE (Emsworth)	20·4*	+ 4·6	33*	+ 8
OSWALDKIRK (Yorkshire)	17·6	+ 5·8	29	+ 9	VENTNOR HOSPITAL	21·9	+ 6·5	35	+11
LOWESTOFT	21·5	?	35	?	SOUTHPORT	16·7	?	28	?
HOLLESLEY BAY	27·0	?	44	?	RHYL	*	?	*	?
SHEFFIELD	18·7	?	31	?	COLWYN BAY		?		?
WORKSOP	19·1	+ 8·2	31	+13	ABERDOVEY	21·0*	?	34*	?
THURCASTON (Leicestershire)	15·5	+ 3·5	25	+ 6	TENBY	19·1	+ 2·6	31	+ 5
MARGATE	9·3	− 4·5	15	− 7	NEWQUAY	14·4	− 1·6	23	− 2
BROADSTAIRS	15·0	?	24	?	TORQUAY	25·2	+ 9·6	40	+16
EASTBOURNE	23·2	+ 7·5	37	+13	GUERNSEY	10·9*	− 5·9	17*	− 9

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Jan. 5th, 1901	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	9·5	?	18	?
,, ,, ,, 12th, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	12·0	0·0	21	3
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	9·6	− 3·1	17	− 6
,, ,, ,, 19th, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	15·9	?	28	?
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	7·7	− 4·3	13	− 7
,, ,, ,, 26th, ,,	Killarney	56	31	52·9	48·9	46·2	+ 2·9	42	9	6	1·68	+ 0·31	—	—	—	—
,, ,, ,, ,, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	16·1	+ 2·6	27	+ 5
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	6·0	?	10	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & CO., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & CO., 104, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 6.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 9TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 32.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	23	40·4	31·9	36·1	2 below	0	− 7	41	+ 5	33	− 5	194	−21
	1. SCOTLAND, EAST	52	16	40·6	30·1	35·4	2 below	0	− 9	46	+ 5	15	−30	245	− 5
	2. ENGLAND, N.E.	45	24	39·2	30·6	34·9	3 below	0	− 9	50	+16	31	−17	209	− 8
	3. ENGLAND, EAST	41	20	37·9	28·8	33·4	5 below	0	−10	60	+21	34	−15	227	−15
	4. MIDLAND COUNTIES	45	23	38·3	29·7	34·0	4 below	0	−12	56	+19	33	−28	254	+ 9
	5. ENGLAND, SOUTH	45	24	39·5	30·9	35·2	5 below	0	−14	48	+19	54	−19	186	− 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	21	40·4	30·9	35·7	4 below	0	−16	44	+15	42	−18	174	− 6
	7. ENGLAND, N.W.	47	16	39·4	31·8	35·6	4 below	0	−11	45	+17	38	−21	191	+16
	8. ENGLAND, S.W.	50	24	41·4	32·5	37·0	4 below	0	−17	35	+13	63	−32	151	+14
	9. IRELAND, NORTH	47	26	43·2	34·8	39·0	2 below	3	−12	26	+ 2	67	−15	126	−26
	10. IRELAND, SOUTH	47	23	43·2	32·5	37·7	5 below	3	−19	33	+15	92	−32	117	− 1
	—CHANNEL ISLANDS	48	35	44·6	37·2	40·9	4 below	7	−18	19	+10	157	+14	59*	0

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 32.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	4	7 less	30	+ 1	5·5	− 1·8	13	+ 1	22	+ 2	40	− 6	13	− 2
	1. SCOTLAND, EAST	2	2	4 less	23	0	3·0	− 0·7	16	+ 1	27	+ 3	47	−16	15	− 5
	2. ENGLAND, N.E.	4	4	0 (average)	22	0	2·6	0·0	15	+ 2	23	+ 2	41	−14	16	− 4
	3. ENGLAND, EAST	3	2	2 less	18	− 6	2·0	− 0·6	10	− 5	15	− 7	83	− 1	21	0
	4. MIDLAND COUNTIES	4	4	2 less	25	+ 3	3·9	+ 0·7	7	− 7	11	−10	51	−12	16	− 3
	5. ENGLAND, SOUTH	2	5	0 (average)	21	− 2	3·0	− 0·5	11	− 5	17	− 7	86	+ 6	23	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	7 less	27	0	5·1	− 2·6	22	+ 9	36	+16	61	+ 3	18	+ 1
	7. ENGLAND, N.W.	4	4	2 less	27	+ 3	3·3	− 0·8	12	− 2	19	− 4	63*	− 5	17	− 1
	8. ENGLAND, S.W.	3	3	5 less	26	0	5·3	− 0·2	16	0	25	0	81	+ 5	24	+ 1
	9. IRELAND, NORTH	5	3	3 less	30	+ 2	4·2	− 0·1	15	0	23	0	77	+11	23	+ 4
	10. IRELAND, SOUTH	2	1	8 less	27	− 1	4·6	− 1·0	19	+ 3	29	+ 4	83	+ 2	24	+ 1
	— CHANNEL ISLANDS	5	8	1 more	30	+ 3	4·5	0·0	12	−15	19	−20	95	− 7	23	− 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period varied considerably in different localities. In the more north-western, northern, and north-eastern districts showers of sleet or snow, alternating with fine intervals, were of frequent occurrence throughout the period, but in the southern and south-western parts of the Kingdom the weather, after being rough on Monday, with heavy falls of sleet and snow, was mainly fair and dry.

Temperature was again below the mean, the deficit ranging from 2° in Scotland N. and E. and Ireland N., to 4° in most other districts, and to 5° in England S. and E. and in Ireland S. The highest of the maxima were registered towards the end of the week, and ranged from 52° in Scotland E., 51° in Scotland N. and 50° in England S.W., to 41° in England E. The lowest of the minima were mostly recorded between the 4th and 7th, and varied from 16° in Scotland E. and England N.W., and from 20° in England E., to 26° in Ireland N., and to 35° in the Channel Islands.

Rainfall slightly exceeded the mean in the Channel Islands, and just equalled it in England N.E. and S. ; in all other districts there was a deficit. The fall of snow and sleet over the south-east of England on the evening and night of Monday was very heavy in some places ; at St. Leonards 0·86 in. was measured, while in the adjoining town of Hastings the fall amounted to 1·30 ins.

Bright Sunshine exceeded the mean in Scotland, the north-east of England and the south of Ireland, but was deficient in most other districts. The percentage of the possible duration ranged from 36 in Scotland W. and 29 in Ireland S., to 19 in England N.W. and the Channel Islands, and to 11 in the Midland Counties.

Barometer and Wind.—At the commencement of the period a small depression was travelling away south-eastwards over France, and the wind over our Islands was light or moderate from the Northward and North-Eastward. On Monday a large shallow system was shown over the northern parts of the North Sea and Norway, and the winds over all our northern and eastern coasts had backed to the North-Westward. This disturbance disappeared quickly, but during the latter part of the day a small but rather deep depression of increasing depth travelled south-eastwards from the north of Ireland directly over the Kingdom, causing a return of Northerly and North-Easterly winds of greatly increased strength and the heavy sleet and snow noted above. As this system disappeared over France an anticyclone began to spread over us from the Atlantic, and the wind decreased in force and shifted to the North-Westward.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 31 has been calculated.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND N.	Sumburgh Head	44	29	39·3	31·7	35·5	− 3·0	0	46	7	0·33	− 0·46	*	*	*	*
	Stornoway	45	30	41·0	32·7	36·9	− 1·9	0	36	7	0·33	− 0·66	19·0	+ 5·7	32	+ 9
	Wick	45	30	39·9	31·7	35·8	− 2·0	0	43	7	0·54	+ 0·04	*	*	*	*
	Lairg Ⓢ	51	23	43·3	29·8	36·6	+ 1·3	4	44	6	0·61	− 0·16	*	*	*	*
	Glencarron Ⓢ	42	28	38·1	31·9	35·0	− 2·0	0	49	6	0·73	− 1·09	*	*	*	*
	Fort Augustus Ⓢ	48	28	40·7	31·6	36·2	− 1·8	0	41	5	0·23	− 0·76	9·5	+ 0·7	16	+ 1
	Fort William Ⓢ	46	29	40·4	33·6	37·0	− 1·8	0	35	4	0·18	− 1·82	11·7	+ 0·5	20	+ 1
1. SCOTLAND, E.	Nairn	47	31	41·6	33·1	37·4	− 0·3	0	32	5	0·27	− 0·13	*	*	*	*
	Aberdeen	43	28	39·4	32·0	35·7	− 2·3	0	44	4	0·33	− 0·21	16·2	− 0·6	27	− 1
	Braemar Ⓢ	41	16	36·8	26·3	31·6	− 2·9	0	73	2	0·15	− 0·55	*	*	*	*
	Ochtertyre Ⓢ	52	28	44·6	29·7	37·2	− 0·3	7	45	0	—	− 0·95	*	*	*	*
	Leith	49	29	42·0	31·7	36·9	− 2·6	0	36	1	0·08	− 0·35	*	*	*	*
	Marchmont Ⓢ	44	24	39·3	27·6	33·5	− 3·5	0	60	2	0·48	− 0·12	14·5	− 0·7	24	0
2. ENGLAND, N.E.	Alnwick Castle	44	28	39·9	31·4	35·7	− 2·3	0	44	4	0·46	− 0·08	*	*	*	*
	Durham	45	24	39·4	30·1	34·8	− 2·8	0	50	3	0·50	+ 0·10	15·7	+ 0·7	25	+ 1
	Shields	45	25	40·6	30·6	35·6	− 3·4	0	45	4	0·65	+ 0·27	*	*	*	*
	Scarborough Ⓜ	42	29	39·2	33·6	36·4	− 2·4	0	39	4	0·18	− 0·27	10·5	?	17	?
	Spurn Head	44	?	40·4	?	?	?	?	?	4	0·20	− 0·14	*	*	*	*
	Fulbeck (Lincolnshire)	39	24	36·9	27·3	32·1	− 5·3	0	69	4	0·51	+ 0·13	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	40	21	38·0	27·5	32·8	− 5·2	0	64	3	0·27	− 0·17	15·6	− 0·2	24	− 1
	Yarmouth	39	28	37·6	30·3	34·0	− 4·0	0	56	4	0·13	− 0·29	*	*	*	*
	Geldeston	41	26	38·2	29·5	33·9	− 4·8	0	57	3	0·07	− 0·28	7·1	− 9·4	11	−15
	Cambridge	41	20	38·8	27·8	33·3	− 5·2	0	61	2	0·08	− 0·26	12·8	− 3·4	20	− 5
	Felixstowe	39	20	37·4	29·6	33·5	− 5·3	0	60	2	0·25	?	10 3†	?†	16†	?†
	Rothamsted	40	22	37·6	27·9	32·8	− 5·1	0	64	3	0·23	− 0·27	9·9	− 5·1	15	− 8
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	42	25	39·4	31·1	35·3	− 3·1	0	47	4	0·20	− 0·19	*	*	*	*
	Loughborough	43	24	38·4	28·9	33·7	− 4·8	0	58	3	0·26	− 0·19	*	*	*	*
	Colly Weston (Stamford)	45	23	39·9	27·4	33·7	− 4·1	0	58	5	0·45	?	*	*	*	*
	Cheadle Ⓜ	38	25	36·1	29·3	32·7	− 4·6	0	65	4	0·44	− 0·14	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	40	24	36·9	30·1	33·5	− 5·1	0	60	3	0·51	+ 0·03	4·7	?	7	?
	Churchstoke Ⓜ															
	Hereford (Belmont) Ⓜ	45	25	39·7	30·8	35·3	− 3·9	0	47	4	0·16	− 0·36	*	*	*	*
	Cirencester	42	25	38·0	29·6	33·8	− 4·3	0	57	3	0·30	− 0·32	11·6	− 4·5	18	− 7
	Oxford	42	27	38·3	30·0	34·2	− 4·8	0	55	3	0·54	+ 0·10	7·3	− 7·7	11	−12
5. ENGLAND, S.	London	42	25	39·3	30·7	35·0	− 5·0	0	49	1	0·42	− 0·01	3·4†	− 5·4†	5†	− 8†
	Swarraton (Alresford) Ⓜ	39	24	36·9	29·0	33·0	− 5·4	0	63	1	0·48	− 0·20	*	*	*	*
	Dungeness	45	24	40·9	28·9	34·9	− 4·1	0	50	3	0·67	+ 0·29	?	?	?	?
	Hastings (St. Leonards)	42	28	39·2	32·0	35·6	− 4·4	0	45	5	1·13	+ 0·57	14·7	− 4·0	23	− 5
	Southampton	44	27	40·7	32·0	36·4	− 4·2	0	39	1	0·39	− 0·24	10·4	− 6·4	16	− 9
	Portland Bill	44	31	41·6	33·6	37·6	− 4·5	0	31	2	0·29	?	*	*	*	*
	Shaftesbury Ⓜ	42	26	37·8	29·9	33·9	− 4·6	0	57	2	0·33	− 0·35	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	26	40·8	32·5	36·7	− 3·3	0	37	6	0·64	− 1·06	*	*	*	*
	Glasgow	46	28	40·4	32·4	36·4	− 2·5	0	39	3	0·19	− 0·62	23·9	+14·4	39	+24
	Glenlee Ⓢ	46	21	39·3	27·2	33·3	− 4·6	0	61	2	0·16	− 1·14	*	*	*	*
	Douglas (Isle of Man)	45	25	40·9	31·4	36·2	− 4·5	0	41	5	1·02	+ 0·15	20·0	+ 4·2	32	+ 7
7. ENGLAND, N.W.	Newton Reigny	44	16	37·6	25·7	31·7	− 4·9	0	72	3	0·16	?	9·7	?	16	?
	Stonyhurst	41	24	37·8	30·9	34·4	− 3·9	0	53	4	0·23	− 0·65	13·2	+ 0·2	21	+ 1
	Blackpool Ⓜ	44	24	40·6	30·7	35·7	− 3·3	0	44	5	0·31	− 0·29	14·6	+ 1·1	23	+ 2
	Manchester (Prestwich)	40	20	37·1	29·0	33·1	− 5·5	0	62	4	0·51	− 0·09	12·0	?	19	?
	Liverpool Obsy. (Bidston)	43	30	38·9	33·9	36·4	− 3·4	0	39	5	0·47	+ 0·02	12·0	?	19	?
	Llandudno Ⓜ	47	33	41·6	36·2	38·9	− 2·8	0	22	3	0·46	− 0·09	8·7	− 7·1	14	−11
	Holyhead	45	34	42·1	36·4	39·3	− 2·4	0	20	6	0·73	+ 0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	44	24	39·9	30·4	35·2	− 3·6	0	48	5	0·37	− 0·63	*	*	*	*
	Pembroke	46	34	43·7	36·9	40·3	− 2·0	5	19	4	0·26	− 0·44	16·5	− 0·8	26	− 1
	Clifton	45	27	40·0	31·1	35·6	− 4·8	0	45	2	0·24	− 0·45	*	*	*	*
	Bath	45	26	40·7	30·3	35·5	− 5·5	0	46	2	0·22	?	*	*	*	?
	Arlington (N. Devon)	45	26	39·9	30·4	35·2	− 5.3	0	48	1	0·46	− 0·56	*	*	*	*
	Cullompton Ⓜ	50	25	42·1	31·2	36·7	− 4·1	0	38	1	0·30	− 0·42	13·1	− 2·1	20	+ 3
	Falmouth	47	31	42·9	35·6	39·3	− 4·3	3	23	5	0·21	− 0·79	21·3	+ 2·5	32	+ 4
	Plymouth	46	30	42·2	34·4	38·3	− 4·2	1	27	1	0·09	− 0·68	16·6	− 0·4	25	0
9. IRELAND, N.	Malin Head	45	37	43·1	38·7	40·9	− 0·8	3	12	7	0·29	?	*	*	*	*
	Londonderry	47	32	43·1	34·6	38·9	− 1·8	3	27	6	0·32	− 0·43	*	*	*	*
	Edenfel (Omagh)	46	28	42·3	32·9	37·6	− 1·1	1	32	4	0·35	− 0·32	*	*	*	*
	Blacksod Point	46	34	44·4	35·6	40·0	− 3·0	7	24	7	0·46	?	*	*	*	*
	Markree Castle	47	30	43·9	34·2	39·1	− 1·0	5	29	4	0·25	− 0·50	14·7	+ 0·2	23	+ 1
	Armagh	47	26	42·8	32·4	37·6	− 2·2	2	34	4	0·12	− 0·43	14·3	− 0·2	23	0
	Donaghadee	47	33	43·1	35·1	39·1	− 1·7	3	25	5	0·54	− 0·08	*	*	*	*
10. IRELAND, S.	Dublin	46	31	42·4	34·3	38·4	− 3·8	1	28	1	0·11	− 0·39	19·1	+ 2·3	30	+ 4
	Parsonstown	44	23	42·1	29·3	35·7	− 4·7	0	45	4	0·11	− 0·46	14·4	− 1·0	23	− 1
	Kilkenny	43	28	41·4	31·6	36·5	− 4·9	0	39	1	0·11	− 0·55	*	*	*	*
	Roche's Point	47	31	43·7	34·9	39·3	− 4·4	5	26	2	0·03	− 1·02	*	*	*	*
	Valencia	47	33	45·3	35·4	40·4	− 4·4	9	26	2	0·06	− 1·22	22·3	+ 5·5	35	+10
	Killarney	47	24	44·5	27·7	36·1	− 7·2	7	52	3	0·16	− 1·14	*	*	*	*
	Foynes	?	30	?	34·1	?	?	?	?	3	0·12	− 0·65	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	48	36	45·6	37·9	41·8	− 3·9	10	17	4	0·67	− 0·01	24·2	?	37	?
	Jersey	46	35	43·6	36·4	40·0	− 3·0	4	21	5	0·83	+ 0·20	8·1	−13·4	12	−19

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

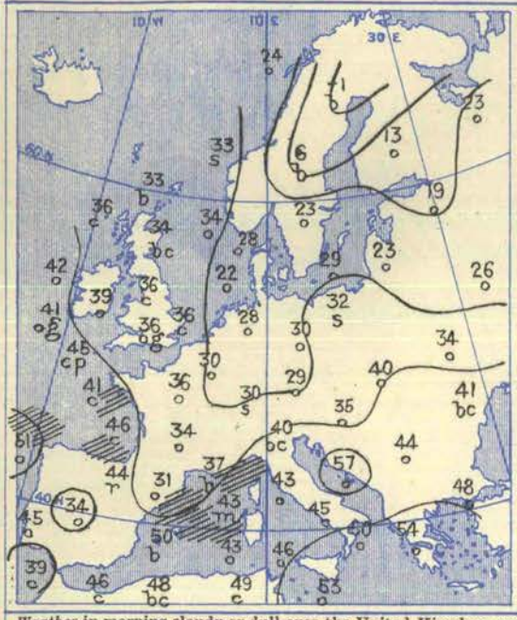
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 3rd February.

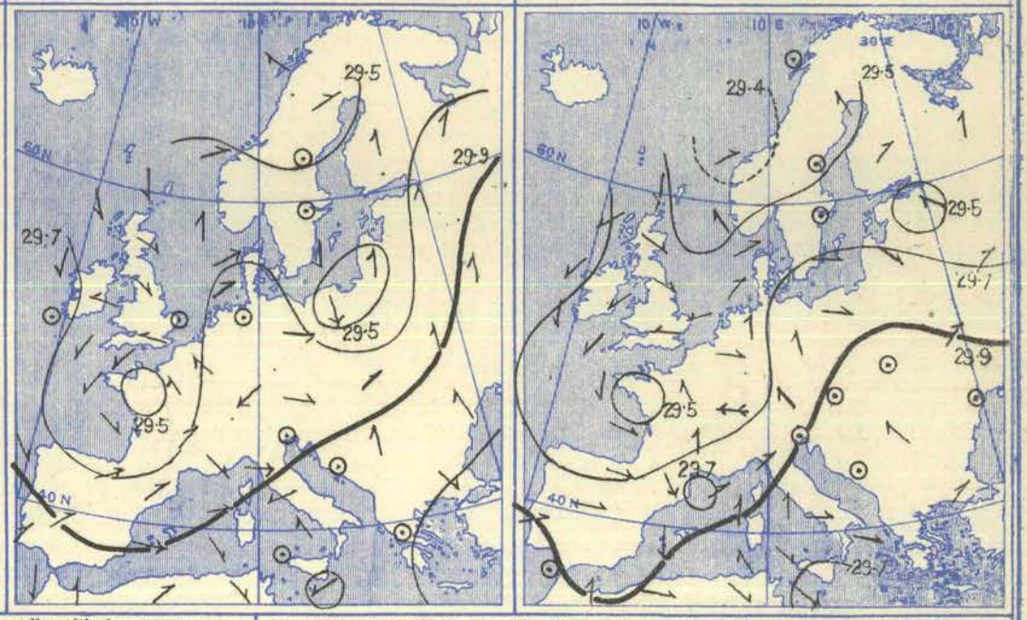
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the United Kingdom generally, with showers at some of our western stations and fog or mist in many parts of England; fine on the north-east coasts of Scotland. Dull over the greater part of the Continent, with rain at a few places in France and northern Italy, and snow at Memel, Neufahrwasser, Breslau and Munich. Snow or cold rain falling later in the west and extreme north of our Islands generally. Rain occurring also in many parts of France and Italy and thunder at Nice.

Temperature fallen in our Islands and also in Germany and the north of Sweden; risen in most other localities. Morning readings highest, 58° at Malta, 57° at Lesina, and 54° at Athens; above 45° at most of the Mediterranean stations. Lowest, −1° Fahr. at Haparanda, + 6° at Hernösand, and 13° at Kuopio and Helsingfors; below the freezing point over northern and central Europe generally and also at some stations in the north of England. Daily maxima below 40° in several parts of Great Britain, but thermometer touching 45° on our extreme west and south-west coasts; exceeding 50° in the west of France and exceeding 60° in some parts of southern Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

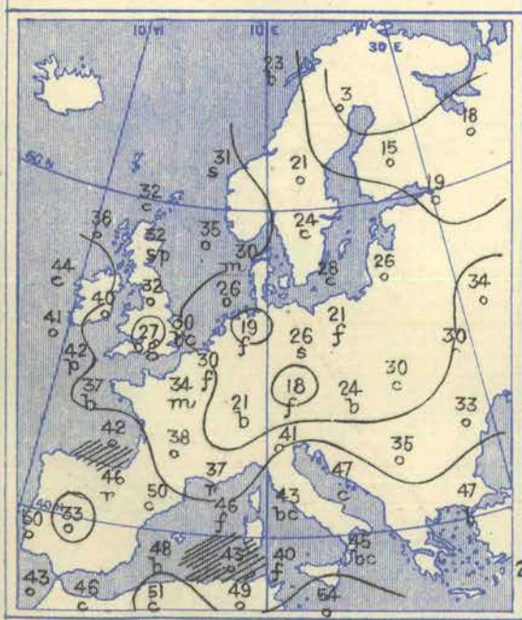


Wind light to moderate from the Eastward over the greater part of England, but North-Westerly in the west of France and the north of Spain, and South-Westerly or Southerly in the south of France. Northerly or North-Westerly in the north of our Islands and also over the south of Scandinavia and the Baltic, but South-Westerly in Denmark. Variable over Austria and Italy; Southerly over the greater part of Russia. No important change occurring during day.

Barometer highest, 30·1 ins. and upwards in an anticyclone over Asia Minor, the Black Sea and the south of Russia; 30·0 ins. and upwards in another system over Morocco and the south of Spain. Lowest, 29·4 ins. and less in a well-marked depression over the Baltic provinces; 29·5 ins. and less in another disturbance over the north-west of France, and also in a large shallow area over the north of Scandinavia. Both depressions filling up gradually later but new disturbance appearing off the west of Norway.

Monday, 4th February.

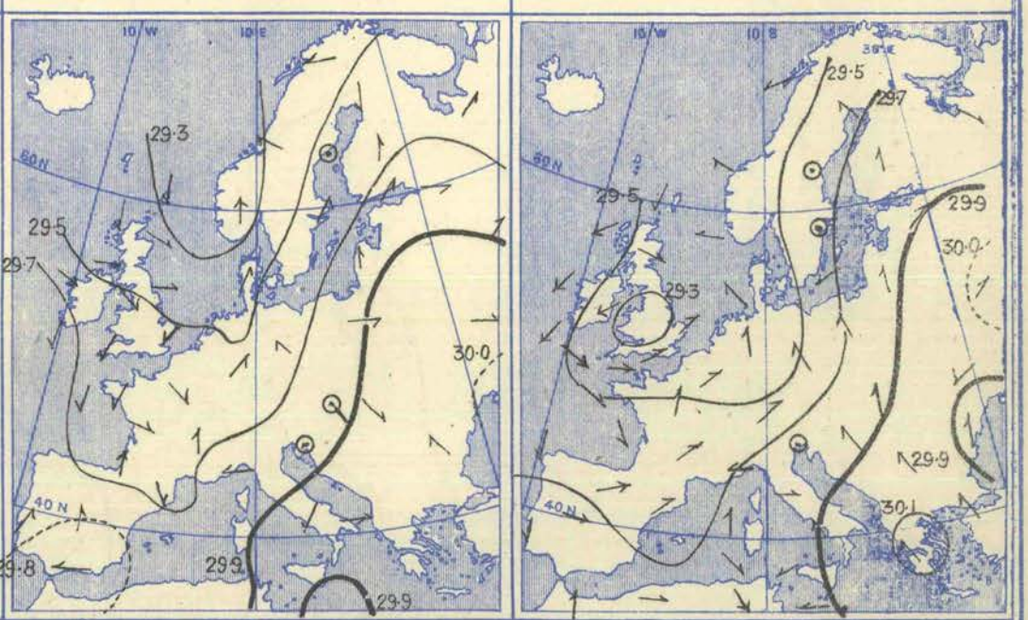
Temperature and Weather. 8 a.m.



Weather in morning cloudy and misty over the United Kingdom, with snow showers in the east of Scotland, and rain at some places in the northern parts of England and Ireland. Dull over the greater part of the Continent, with rain at some of the southern French stations, and snow in isolated parts of Scandinavia and Germany. Fine over southern Italy, snow or sleet falling later over nearly the whole of our Islands and the northern parts of the Continent, and rain in France, northern Italy, and the neighbouring parts of Austria—as much as 2·6 ins. at Trieste.

Temperature fallen over England and the north of France, as well as in Germany, Austria and the south of Russia, risen in most other localities. Morning readings highest, 54° at Malta, 51° at Algiers, and 50° at Barcelona and Nemours, above 45° at most of the Mediterranean and Spanish coast stations. Lowest, 3° at Haparanda, 12° at Uleaborg, and 15° at Kuopio; considerably below the freezing point in Germany, and slightly below it in many parts of England. Daily maxima, below 40° in all but the western parts of the United Kingdom. Thermometer exceeding 50° over southern Europe generally.

Barometer and Wind. 8 a.m. and 6 p.m.

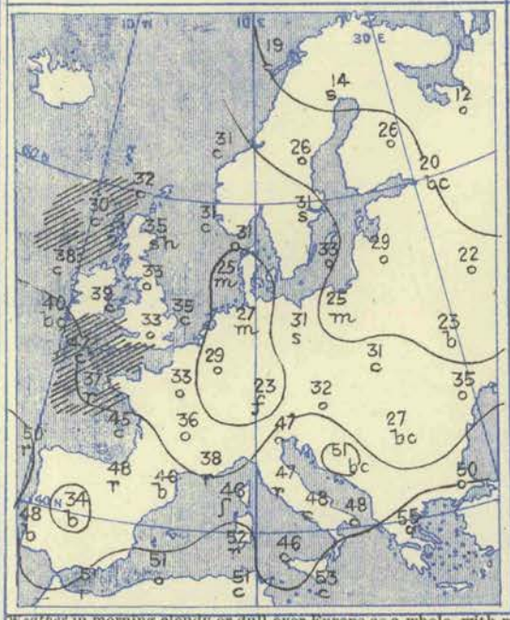


Wind light to moderate from between West and North over the United Kingdom and the north of France, but Southerly over Denmark, the Baltic, and the south of Scandinavia, and Easterly in the west of Norway. Variable over Austria and the south of Russia; Easterly over Italy and the extreme south of France; variable over the Spanish Peninsula. Increasing considerably from the Northward later on all our western coasts, and blowing a gale in the Irish Sea; backing to the South-Westward in the south of England.

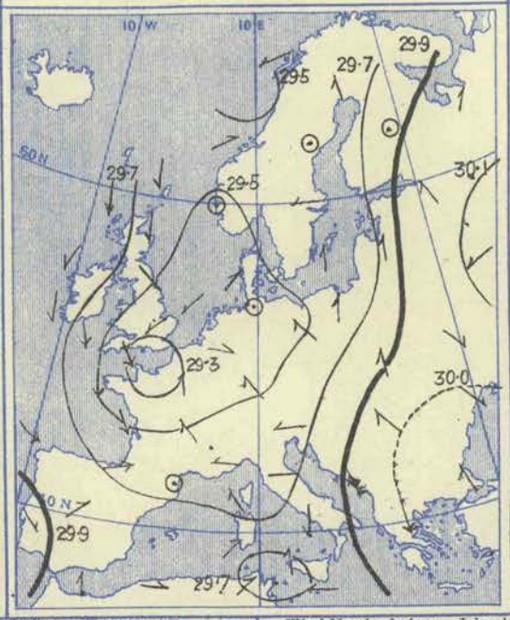
Barometer highest, 30·0 ins. and upwards in an anticyclone over the south of Russia. Lowest, 29·3 ins. and less in a shallow depression lying off the west of Norway and over the northern parts of the North Sea; 29·5 ins. and less in another disturbance over the White Sea. Both depressions disappearing later, but secondary disturbance of increasing depth advancing over our Islands from the north-westward, the centre passing across Wales and the south of England at night.

Tuesday, 5th February.

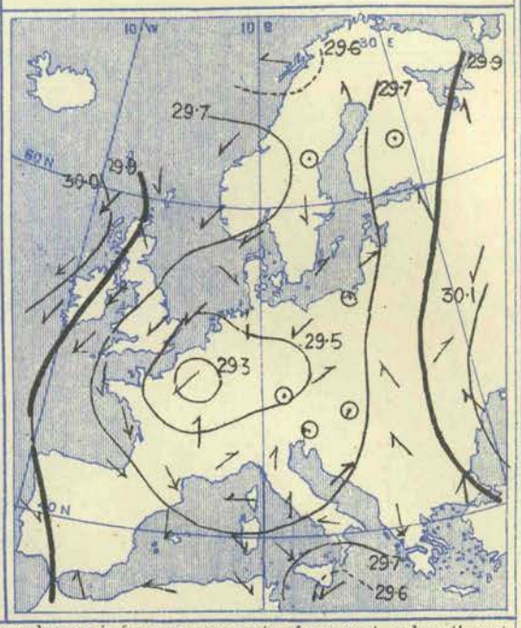
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with rain in many parts of France, and at some stations in the northern parts of Spain and Italy, and with snow showers on the east coast of Great Britain; snow falling also at Berlin and in the northern parts of Russia and Sweden. Fine in the west of our Islands, as well as over the greater part of Spain. Snow or hail showers falling later over Great Britain, and rain at many of the Continental stations.

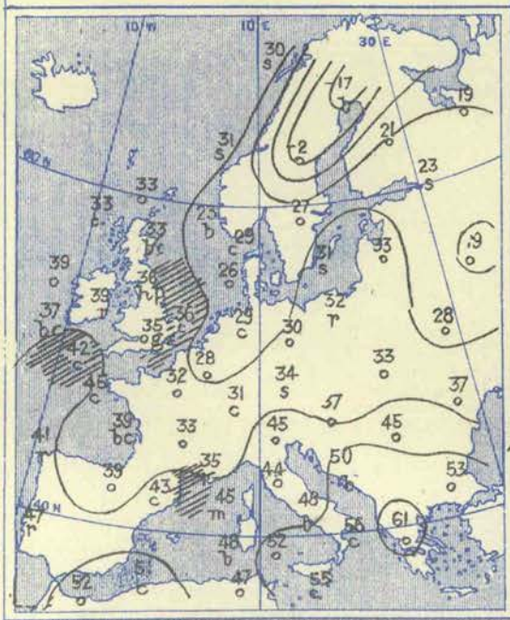
Temperature changed very irregularly. Morning readings highest, 58° at Malta, 55° at Athens, 54° at Patras, and 53° at Tunis; above 45° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, (1) 12° at Archangel, 14° at Haparanda, and 19° at Bodö; (2) 17° at Prague, and 23° at Munich; below the freezing point over northern, eastern, and central Europe generally, and also over central Ireland and the north of England. Daily maxima below 40° in most parts of Great Britain, and below 35° in the Shetlands. Thermometer exceeding 50° over southern Europe generally, and exceeding 60° at some of the Mediterranean stations. Frost occurring over the United Kingdom at night.

Wind Northerly in our Islands and strong in force on many parts of our west and south-west coasts; strong from the North-Westward in the west of France; light from the Southward over central France, and from the South-Eastward over Italy and the greater part of central Europe; variable at the Scandinavian stations. Northerly breezes setting in later over Denmark and the south of Scandinavia; no important change occurring elsewhere.

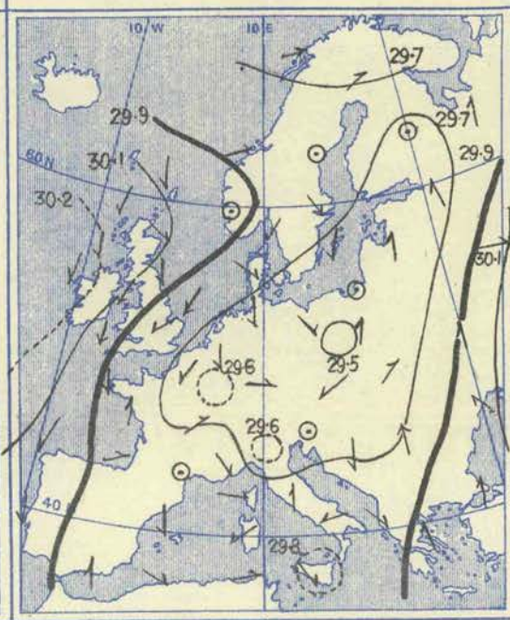
Barometer highest, 30·1 ins. and upwards in an anticyclone over central Russia; 29·9 ins. and upwards over Portugal; 29·8 ins. and upwards in the west of Ireland. Lowest, 29·2 ins. and less in a well-marked depression with its centre near Havre; 29·5 ins. and less in a shallow area off the west of Norway. Depression over France subsequently moving slowly south-eastwards and partially filling up; barometer rising over western Europe generally.

Wednesday, 6th February.

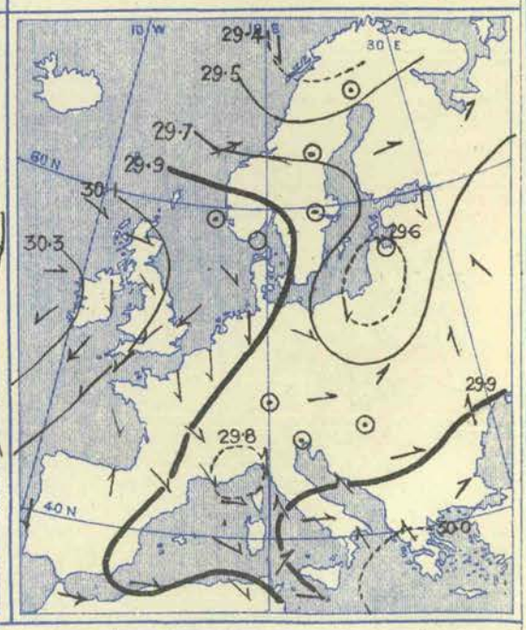
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of the United Kingdom, but dull in the south-east of England, with snow showers at Dungeness. Cloudy or dull at most of the Continental stations, with rain in the western parts of the Spanish Peninsula, and snow in several parts of France, Scandinavia, and northern Russia. Snow showers falling later over England and a little rain on our extreme north and north-west coasts, larger quantities reported in several parts of Italy. Thunderstorm occurring at Biarritz.

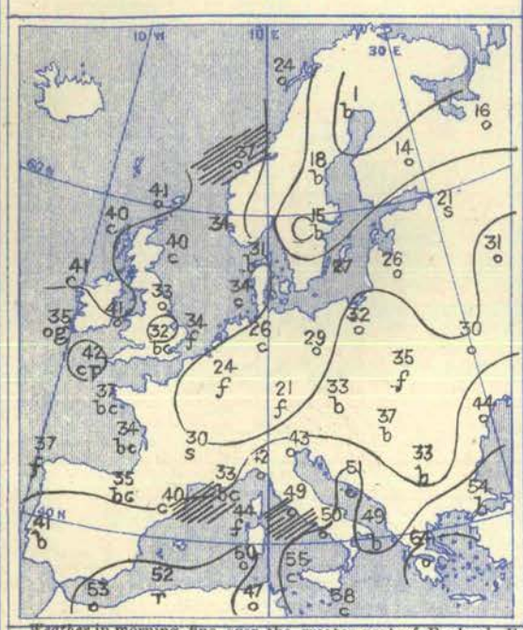
Temperature fallen rapidly in Sweden and to a less extent in Ireland and Scotland, risen elsewhere. Morning readings highest, 61° at Patras, 59° at Athens, 56° at Brindisi, and 55° at Malta; above 45° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, −17° Fahr. at Haparanda, −2° at Hernösand, + 1° at Uleaborg, and 9° at Karlstad, considerably below the freezing point over northern Europe generally and also in central Ireland; slightly below it at some stations in the northern parts of Great Britain. Sharp frost occurring over England at night; sheltered thermometer at Newton Reigny falling to 16°.

Wind Northerly or North-Easterly over the greater part of western Europe, but North-Westerly in the east of Scotland; strong in force on the east and south coasts of England and in the north of France. Variable over central and southern Europe; Southerly in Russia: South-Westerly over the northern parts of Scandinavia. Subsequently backing to the Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the west of Ireland and also in another system lying over the south of Russia. Lowest, 29·5 ins. and less in a small depression over western Poland; 29·6 ins. and less in two other small disturbances lying respectively over the east of France and over the Gulf of Genoa. Western anticyclone subsequently spreading eastwards; depressions all dispersing slowly, and barometer rising generally.

Thursday, 7th February.

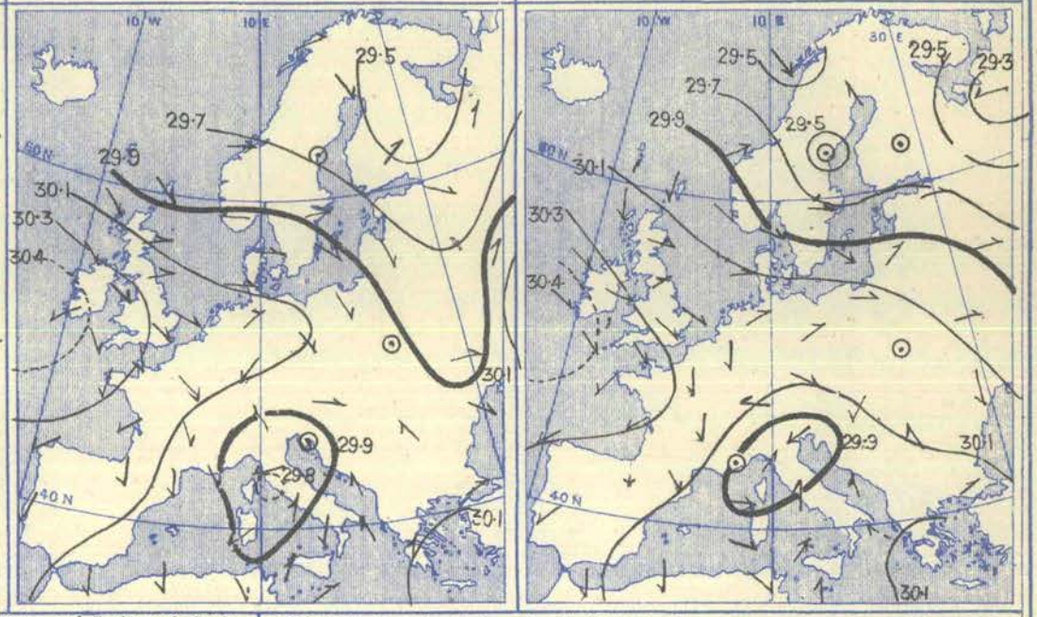
Temperature and Weather. 8 a.m.



Weather in morning fine over the greater part of England, France, and Spain, and also in Sweden and Denmark. Cloudy or dull elsewhere, with fog in several parts of central Europe, rain at Florence and Perpignan, and snow at St. Petersburg, Breslau, and Cracow. Slight rain falling later in many parts of the United Kingdom, and larger quantities over Italy and the Adriatic—as much as 1·0 in. at Leghorn.

Temperature fallen over England, France, Spain, Germany, and the Netherlands, and also over the Baltic and northern Russia; risen elsewhere. Morning readings highest, 61° at Patras, 58° at Malta, and 55° at Palermo; above 50° over the central and southern parts of the Mediterranean generally. Lowest, 1° at Haparanda, 4° at Karlstad, 10° at Uleaborg, and 14° at Kuopio; below the freezing point over northern and central Europe generally, and also over the greater part of England. Daily maxima below 40° over eastern and central England, but thermometer reaching 45° in some parts of Ireland and Scotland. Exceeding 60° over Greece and southern Italy, the highest reading reported being 66° at Patras.

Barometer and Wind. 8 a.m. and 6 p.m.

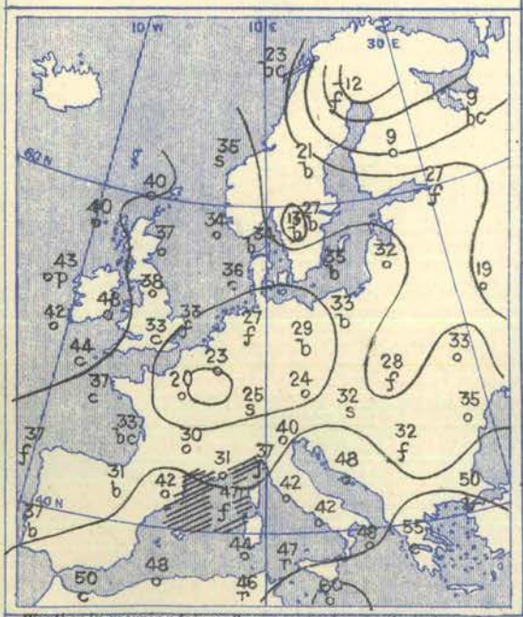


Wind light to moderate from the North-Westward over the northern parts of the United Kingdom, and from the Westward in Scandinavia, Denmark, and northern Russia. Light from the Northward over the south of England and the greater part of France, and from the North-Eastward or Eastward over the Spanish Peninsula. A cyclonic circulation of light to moderate breezes reported over Italy and the western parts of the Mediterranean. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards in the west and south of Ireland; 30·1 ins. and upwards in an anticyclone covering a considerable portion of western Europe. Lowest, 29·5 ins. and less in a depression over Finland; 29·8 ins. and less in a small disturbance with its centre between Corsica and Italy. Depression over Finland subsequently moving eastwards and growing deeper; new disturbance appearing over the central parts of Sweden in evening.

Friday, 8th February.

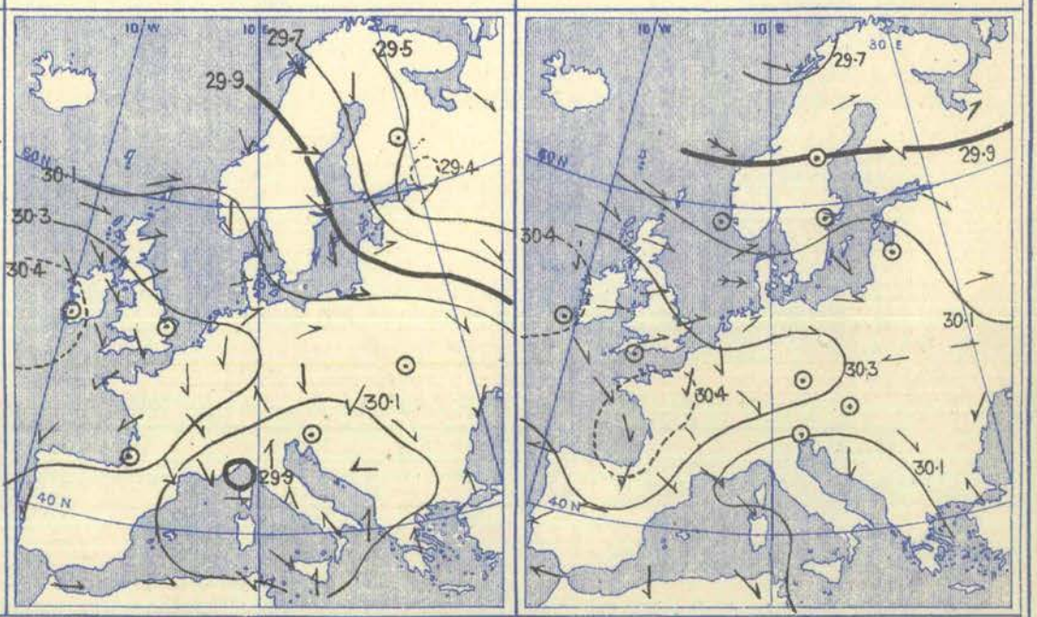
Temperature and Weather. 8 a.m.



Weather in morning fair or fine over western and northern Europe generally, but foggy in many parts of England, and also in Denmark and north Germany. Showery in the extreme north and north-west of our Islands; dull over Austria, Italy, and south Germany, with rain at Buda Pesth and Palermo, and snow at Munich and Vienna, as well as at Christiansund. Showers falling later at most of our western and extreme northern stations; aurora seen at Wick.

Temperature risen in most parts of northern and north-western Europe, fallen in the central and southern countries. Morning readings highest, 60° at Malta, 55° at Athens and Patras, 52° at Sfax, and 50° at Constantinople; above 45° over the central and southern parts of the Mediterranean generally. Lowest, −12° Fahr. at Haparanda, +5° at Uleaborg, and 9° at Archangel and Kuopio; considerably below the freezing point in most parts of northern and central Europe, and also in the extreme south-east of England. Rising during day to 45° or slightly above it at several of our own western and northern stations; exceeding 50° in many parts of southern Europe, and reaching 59° at San Fernando.

Barometer and Wind. 8 a.m. and 6 p.m.

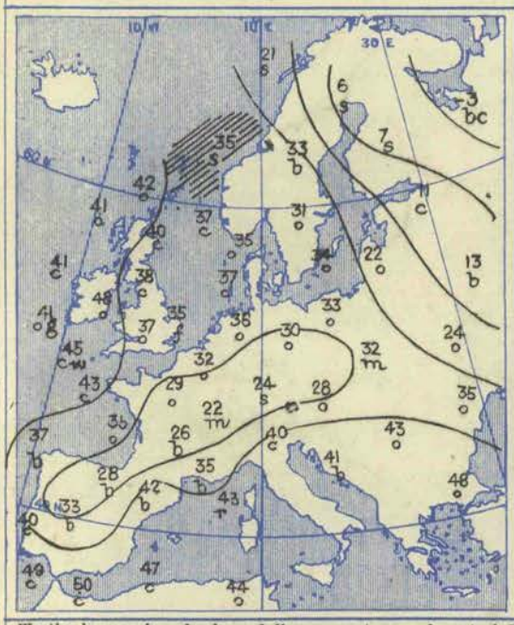


Wind light from the North-Westward over north-western Europe generally but Westerly on the east coast of Great Britain, and also on the eastern shores of the North Sea. North-Easterly over the Bay of Biscay and the Spanish Peninsula; South-Easterly or Southerly in Greece and Italy. Subsequently backing to the Westward in the west of Norway; no important change occurring elsewhere.

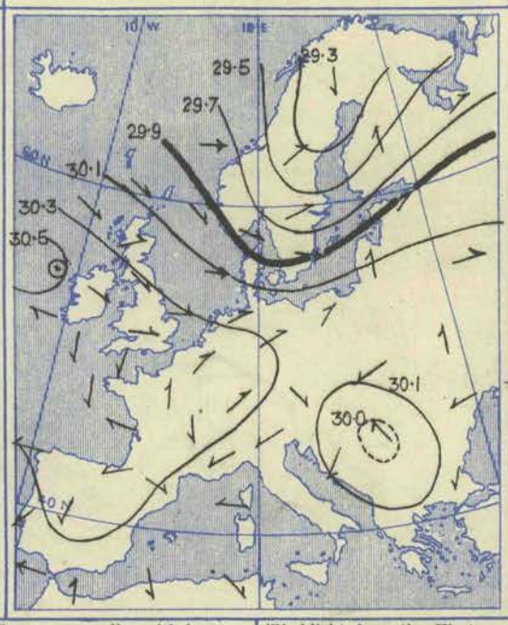
Barometer highest, 30·4 ins. and upwards in the west and south of Ireland; 30·2 ins. and upwards in an anticyclone covering the greater part of western and central Europe. Lowest, 29·5 ins. and less in a large area over northern Russia; 29·9 ins. and upwards in a small depression over the Gulf of Genoa. New disturbance advancing later from the Atlantic to the north-west of Norway; other depressions filling up.

Saturday, 9th February.

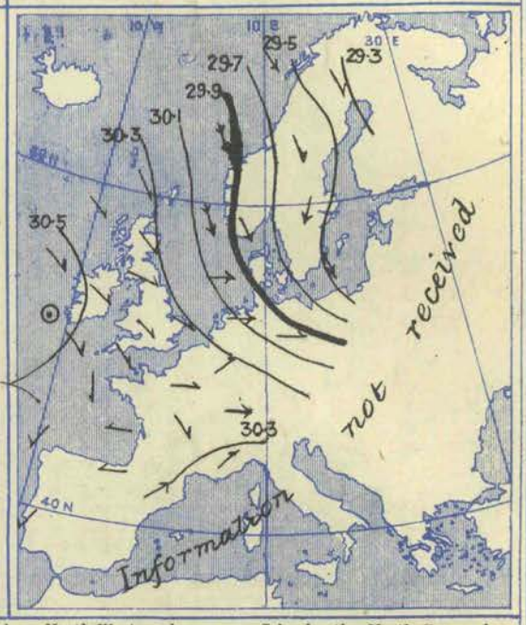
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western and central Europe generally, with fog or mist in many parts of England and Germany, and slight rain at some of the Irish stations; snow falling over Finland and the northern parts of Scandinavia, and also at Munich and Buda Pesth. Fine over southern Europe generally. A little rain falling during day in many parts of the United Kingdom, Germany, and the Netherlands, and snow in the south of Sweden.

Temperature risen in most countries, but fallen in Austria, Russia, and the south of Scandinavia. Morning readings highest, 50° at Nemours, 49° at San Fernando, and 48° at Constantinople; above 40° at most of the Mediterranean stations, and also in the south-west, west, and extreme north of our Islands. Lowest, -3° Fahr. at Archangel, +6° at Uleaborg, and 7° at Haparanda and Kuopio; below the freezing point over nearly the whole of Russia, Germany and central France. Rising during day to 45° and upwards at most of our own western and northern stations and to 49° at Leith; exceeding 50° in the north-west of France, and also over the Spanish Peninsula, and reaching 54° at Lisbon.

Wind light from the Westward or North-Westward over our Islands, the North Sea, and Denmark, and strong from the same quarters in the west of Norway; South-Westerly over Germany, Sweden, and northern Russia; Easterly or North-Easterly over the Bay of Biscay, and the greater part of southern Europe, variable over Austria and the south of Russia. Subsequently increasing to a gale from the North-Westward on the Norwegian coast; no important change occurring elsewhere.

Barometer highest, 30·50 ins. and upwards off the west of Ireland; 30·3 ins. and upwards in an anticyclone, covering the greater part of western Europe and also in another system over the south of Russia. Lowest, 29·3 ins. and less in a well-marked depression with its centre over the northern part of the Gulf of Bothnia. Depression subsequently moving eastwards and barometer rising in the north of Scandinavia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week barometrical pressure was highest over south-eastern Europe, but somewhat high over Italy and the Mediterranean. In the north-western and northern countries the weather was affected in the first place by depressions lying respectively over the north-west of France and the Baltic provinces; and later on by another disturbance which appeared off the Norwegian coast, the wind being finally North-Westerly in these Islands and South-Westerly or Southerly over northern Europe. On Monday and Tuesday a secondary depression of increasing intensity advanced over the United Kingdom from the north-westward and passed directly across Wales and the south of England to the east of France, where it quickly dispersed. Its progress was attended by considerable falls of snow in many parts of the United Kingdom, the wind in the rear of the disturbance blowing hard from the Northward on our western and southern coasts. As the depression disappeared a large anticyclone spread from the Atlantic over our Islands, and eventually over nearly the whole of western and central Europe, and for the remainder of the week the wind in these regions varied between West and North, the weather being mostly cloudy, with slight rain in many parts of the United Kingdom. Over northern Europe the conditions were affected by depressions which moved in an east-south-easterly direction across the northern parts of Scandinavia and Russia, and at the close of the week a gale from the North-Westward was reported on the Norwegian coasts, with falls of snow in many parts of the northern countries generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	15·5	+ 3·6	27	+ 7	BRIGHTON	14·8	- 2·2	23	- 3
STRATHPEFFER SPA	9·2	- 4·4	16	- 6	WORTHING	16·3	?	25	?
EDINBURGH	17·5	+ 5·0	29	+ 8	BOGNOR	10·4*	?	16*	?
MORPETH	18·9	?	30	?	WATERGATE (Emsworth)	9·8	?	15	?
NEWCASTLE-ON-TYNE	13·3	?	21	?	WESTBOURNE (Emsworth)	11·7*	- 6·1	18*	- 9
OSWALDKIRK (Yorkshire)					VENTNOR HOSPITAL	11·4	- 6·4	18	- 9
LOWESTOFT	5·3	?	8	?	SOUTHPORT	14·8	?	23	?
HOLLESLEY BAY	8·7	?	14	?	RHYL	10·3*	?	16*	?
SHEFFIELD	5·4	?	8	?	COLWYN BAY		?		?
WORKSOP	10·9	- 1·9	17	- 3	ABERDOVEY	14·7*	?	23*	?
THURCASTON (Leicestershire)	3·5	- 10·2	5	- 16	TENBY	17·1	- 1·1	27	- 1
MARGATE	2·4	- 13·1	4	- 19	NEWQUAY	19·3	+ 1·3	29	+ 2
BROADSTAIRS	3·1	?	5	?	TORQUAY				
EASTBOURNE	20·8	+ 3·9	32	+ 6	GUERNSEY	4·6*	- 14·9	7*	- 22

* The values at Rognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 7.] *Third Series* WEEK ENDING SATURDAY, FEBRUARY 16TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 38.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	15	39·7	27·9	33·8	4 below	0	− 7	57	+20	33	−12	251	− 1
	1. SCOTLAND, EAST	47	1	39·3	25·5	32·4	5 below	0	− 9	67	+26	15	−39	312	+21
	2. ENGLAND, N.E.	46	20	38·8	28·9	33·9	5 below	0	− 9	57	+23	31	−26	266	+15
	3. ENGLAND, EAST	43	10	37·2	25·1	31·2	8 below	0	−12	76	+38	34	−27	303	+23
	4. MIDLAND COUNTIES	46	15	38·0	28·3	32·2	6 below	0	−13	69	+32	33	−41	322*	+40
	5. ENGLAND, SOUTH	46	17	38·0	27·7	32·9	7 below	0	−15	64	+36	54	−34	250	+34
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	46	17	41·0	28·8	35·0	5 below	0	−10	49	+20	42	−28	223	+14
	7. ENGLAND, N.W.	46	20	39·4	28·9	34·2	6 below	0	−11	55	+27	38	−32	246	+43
	8. ENGLAND, S.W.	49	19	40·2	29·8	35·0	7 below	0	−18	49	+27	61*	−52	204*	+45
	9. IRELAND, NORTH	46	19	41·1	30·7	35·9	5 below	0	−15	43	+19	67	−30	169	− 7
	10. IRELAND, SOUTH	46	20	41·7	30·5	36·2	7 below	0	−22	41	+23	92	−54	158	+22
	—CHANNEL ISLANDS	48	26	43·0	34·0	38·6	6 below	3	−22	29	+20	160	− 8	88	+20

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 38.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	2	8 less	35	+ 1	5·7	− 2·7	19	+ 6	30	+ 9	59	0	16	0
	1. SCOTLAND, EAST	3	2	4 less	26	− 1	3·2	− 1·1	26	+ 9	40	+15	73	− 7	19	2
	2. ENGLAND, N.E.	5	4	0 (average)	27	+ 1	3·0	0·0	22	+ 8	54	+13	63	− 5	19	− 1
	3. ENGLAND, EAST	5	4	0 (average)	23	− 4	2·4	− 0·6	23	+ 4	34	+ 5	106	+ 3	23	+ 1
	4. MIDLAND COUNTIES	2	less than ½	5 less	27	+ 1	3·9	+ 0·2	21	+ 7	31	+10	72	− 6	19	− 1
	5. ENGLAND, SOUTH	2	1	5 less	23	− 4	3·1	− 0·9	21	+ 2	30	+ 3	107	+ 8	24	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	10 less	29	− 2	5·2	− 3·6	34	+20	52	+30	95	+23	24	+ 6
	7. ENGLAND, N.W.	2	1	5 less	29	+ 1	3·4	− 1·3	28	+13	42	+19	91	+ 8	20	+ 1
	8. ENGLAND, S.W.	1	1	8 less	27	− 4	5·4	− 0·9	25	+ 6	36	+ 8	106	+11	26	+ 2
	9. IRELAND, NORTH	3	1	5 less	33	0	4·3	− 0·7	14	− 2	21	− 3	91	+ 9	22	+ 2
	10. IRELAND, SOUTH	1	less than ½	8 less	28	− 4	4·6	− 1·9	18	+ 1	26	0	101	+ 3	24	0
	— CHANNEL ISLANDS	4	1	5 less	34	+ 2	4·6	− 0·5	16	− 9	23	−13	111	−16	23	− 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was generally fair and dry over the greater part of the Kingdom, but over the northern and eastern districts of Great Britain snow or sleet showers were very frequent, and at times rather heavy—especially at Yarmouth.

Temperature continued below the mean, the deficit ranging from 4° in Scotland N. to 7° in England S. and S.W. and Ireland S., and to 8° in England E. The highest of the maxima were recorded either at the commencement or end of the week, and ranged from 50° in Scotland N., 49° in England N.W., and 48° in the Channel Islands to 43° in England E. The lowest of the minima occurred on the 14th, when the sheltered thermometer fell to 1°Fah. in Scotland E. (at Braemar), 10° in England E. and 15° in Scotland N. and the Midland Counties, to 20° or less in most other districts and to 26° in the Channel Islands. The mean temperature for the current week has been considerably lower in all districts than any previously experienced during the present winter.

Rainfall was just equal to the mean in England N.E. and E., but less in all other districts. In all the western and southern parts of the Kingdom the fall was very slight.

Bright Sunshine was much above the mean except over Ireland and in the Channel Islands. The percentage of the possible duration ranged from 62° in Scotland W., 42° in England N.W., and 40° in Scotland E., to 23° in the Channel Islands and 21° in Ireland N.

Barometer and Wind.—The distribution of pressure over the United Kingdom was almost entirely anticyclonic, and no definite depression appeared in our immediate neighbourhood. Local irregularities in the isobars which occurred from time to time over our northern and eastern districts were sufficient, however, to cause the falls of snow and sleet noted above, and to produce a great, but temporary, rise of temperature on Saturday. Light Northerly winds prevailed over the Kingdom as a whole, but these occasionally drew into North-West in the north and east, and into North-East on our southern coasts.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°	*	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	25	37·1	28·9	33·0	− 5·2	0	63	6	0·23	− 0·54	*	*	*	*
	Stornoway	43	28	40·6	30·3	35·5	− 3·4	0	46	7	0·36	− 0·60	16·9	+ 1·7	27	+ 3
	Wick	43	20	38·6	28·4	33·5	− 4·4	0	60	6	0·27	− 0·24	*	*	*	*
	Lairg 𝔖	50	15	44·8	24·3	34·6	− 1·1	8	64	6	0·20	− 0·55	*	*	*	*
	Glencarron 𝔖	43	20	37·0	27·5	32·3	− 4·7	0	68	5	0·51	− 1·22	*	*	*	*
	Fort Augustus 𝔖	46	18	40·7	27·7	34·2	− 4·0	0	55	1	0·01	− 0·87	15·3	+ 5·2	24	+ 8
	Fort William 𝔖	45	21	38·8	27·9	33·4	− 5·6	0	60	3	0·09	− 1·84	20·8	+ 7·8	32	+12
1. SCOTLAND, E.	Nairn	45	13	38·6	26·7	32·7	− 5·3	0	65	4	0·22	− 0·17	*	*	*	*
	Aberdeen	40	15	36·4	24·7	30·6	− 7·6	0	80	7	0·41	− 0·14	20·6	+ 2·1	32	+ 4
	Braemar 𝔖	38	1	34·4	20·1	27·3	− 7·4	0	103	4	0·07	− 0·63	*	*	*	*
	Ochtertyre 𝔖	47	19	43·6	26·9	35·3	− 2·5	4	54	0	—	− 0·89	*	*	*	*
	Leith	46	25	42·9	28·9	35·9	− 3·9	3	46	1	0·03	− 0·35	*	*	*	*
	Marchmont 𝔖	43	21	39·7	25·9	32·8	− 4·5	0	64	2	0·25	− 0·35	31·5	+14·5	48	+22
2. ENGLAND, N.E.	Alnwick Castle	42	22	38·8	28·7	33·8	− 4·5	0	57	5	0·37	− 0·18	*	*	*	*
	Durham	44	25	39·2	29·4	34·3	− 3·7	0	54	5	0·24	− 0·16	24·4	+ 7·8	37	+12
	Shields	43	24	39·0	28·9	34·0	− 5·2	0	56	5	0·51	+ 0·13	*	*	*	*
	Scarborough 𝔄	46	25	40·2	30·4	35·3	− 3·9	0	47	6	0·75	+ 0·30	15·3	?	23	?
	Spurn Head	40	27	37·7	30·0	33·9	− 5·1	0	57	5	0·43	+ 0·08	*	*	*	*
	Fulbeck (Lincolnshire)	42	20	38·1	26·0	32·1	− 5·9	0	69	3	0·12	− 0·26	*	*	*	*
3. ENGLAND, E.	Hillington 𝔄	40	13	37·1	24·1	30·6	− 7·9	0	80	7	0·32	− 0·13	21·6	+ 3·7	32	+ 5
	Yarmouth	40	18	35·9	26·4	31·2	− 7·1	0	76	6	0·96	+ 0·53	*	*	*	*
	Geldeston	42	10	36·9	23·4	30·2	− 8·8	0	83	7	0·83	+ 0·47	23·9	+ 5·9	35	+ 8
	Cambridge	42	14	39·4	24·3	31·9	− 7·1	0	71	3	0·04	− 0·31	22·4	+ 4·4	33	+ 6
	Felixstowe	41	20	36·6	26·3	31·5	− 7·5	0	74	3	0·21	?	26·7†	?†	39†	?†
	Rothamsted	43	16	37·2	26·0	31·6	− 6·8	0	73	4	0·07	− 0·43	18·9	+ 1·9	28	+ 3
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	18	39·1	26·1	32·6	− 6·3	0	66	1	0·03	− 0·35	*	*	*	*
	Loughborough	43	16	38·4	24·1	31·3	− 7·7	0	75	2	0·02	− 0·43	*	*	*	*
	Colly Weston (Stamford)	43	20	39·6	26·6	33·1	− 5·1	0	62	2	0·04	?	*	*	*	*
	Cheadle 𝔄	43	20	36·0	26·6	31·3	− 6·5	0	75	2	0·07	− 0·51	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	43	19	37·3	28·4	32·9	− 6·1	0	64	2	0·04	− 0·41	13·2	?	19	?
	Churchstoke 𝔄	43	17	37·8	26·0	31·9	− 3·8	0	71	2	0·02	− 0·59	25·5	+ 8·3	38	+12
	Hereford (Belmont) 𝔄	46	17	38·2	26·6	32·4	− 7·3	0	67	3	0·03	− 0·48	*	*	*	*
	Cirencester	45	15	37·3	25·7	31·5	− 7·0	0	74	1	0·01	− 0·59	25·8	+ 7·6	38	+11
	Oxford	45	19	38·7	27·0	32·9	− 6·9	0	64	1	0·01	− 0·44	20·4	+ 3·6	30	+ 6
5. ENGLAND, S.	London	43	21	38·4	27·3	32·9	− 7·3	0	64	3	0·09	− 0·33	12·3†	+ 2·3†	18†	+ 3†
	Swarraton (Alresford) 𝔄	43	17	36·7	25·3	31·0	− 7·7	0	77	0	—	− 0·65	*	*	*	*
	Dungeness	43	23	37·6	26·9	32·3	− 7·7	0	68	3	0·10	− 0·24	20·0	?	29	?
	Hastings (St. Leonards)	43	24	37·1	27·5	32·3	− 7·8	0	68	5	0·15	− 0·37	23·9	+ 3·3	35	+ 5
	Southampton	46	22	40·0	28·3	34·2	− 7·0	0	55	0	—	− 0·60	23·6	+ 4·8	35	+ 8
	Portland Bill	45	28	40·3	30·9	35·7	− 6·8	0	44	0	—	?	*	*	*	*
	Shaftesbury 𝔄	42	21	36·1	27·7	31·9	− 7·1	0	71	0	—	− 0·65	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	25	41·3	29·9	35·6	− 4·4	0	45	1	0·03	− 1·62	*	*	*	*
	Glasgow	45	25	40·4	29·7	35·1	− 3·9	0	48	1	0·04	− 0·74	29·8	+19·0	46	+29
	Glenlee 𝔖	46	17	40·5	24·9	32·7	− 5·5	0	65	2	0·13	− 1·07	*	*	*	*
	Douglas (Isle of Man)	46	26	41·8	30·8	36·4	− 4·4	0	39	4	0·21	− 0·62	38·5	+21·2	58	+32
7. ENGLAND, N.W.	Newton Reigny	43	21	38·3	25·4	31·9	− 5·1	0	71	1	0·03	?	29·8	?	45	?
	Stonyhurst	44	21	38·2	27·2	32·7	− 6·1	0	65	1	0·01	− 0·84	24·7	+ 9·9	37	+14
	Blackpool 𝔄	44	21	40·1	28·8	34·5	− 4·8	0	53	3	0·03	− 0·54	31·7	+16·2	48	+25
	Manchester (Prestwich)	44	20	38·6	26·2	32·4	− 6·5	0	67	1	0·02	− 0·55	16·6	?	25	?
	Liverpool Obsy. (Bidston)	43	22	38·4	29·1	33·8	− 6·2	0	57	3	0·09	− 0·35	28·4	?	42	?
	Llandudno 𝔄	46	26	41·3	32·4	36·9	− 4·9	0	36	4	0·13	− 0·41	29·4	+11·8	44	+18
	Holyhead	45	28	40·7	33·1	36·9	− 4·9	0	36	2	0·08	− 0·54	*	*	*	*
8. ENGLAND, S.W.	Llandovery	45	19	39·1	27·1	33·1	− 6·1	0	62	3	0·09	− 0·88	*	*	*	*
	Pembroke	44	31	41·6	35·4	38·5	− 4·0	0	25	2	0·03	− 0·65	25·4	+ 6·2	37	+ 9
	Clifton	49	22	39·2	28·7	34·0	− 7·0	0	56	0	—	− 0·66	*	*	*	*
	Bath	43	20	38·7	27·6	33·2	− 8·2	0	62	0	—	?	21·4	?	31	?
	Arlington (N. Devon)	44	23	38·3	27·6	33·0	− 7·8	0	63	1	0·10	− 0·92	*	*	*	*
	Cullompton 𝔄	46	22	40·1	27·1	33·6	− 7·4	0	59	1	0·02	− 0·70	26·6	+ 9·6	39	+14
	Falmouth	46	27	42·4	32·9	37·7	− 6·2	1	32	3	0·10	− 0·87	24·7	+ 4·2	36	+ 6
	Plymouth	46	25	41·9	31·7	36·8	− 6·0	0	36	1	0·04	− 0·71	21·5	+ 2·5	31	+ 4
9. IRELAND, N.	Malin Head	44	32	42·0	35·4	38·7	− 3·0	0	23	5	0·23	?	*	*	*	*
	Londonderry	45	26	41·5	30·9	36·2	− 4·8	0	41	3	0·24	− 0·48	*	*	*	*
	Edenfel (Omagh)	43	24	39·0	28·7	33·9	− 5·9	0	57	2	0·17	− 0·45	*	*	*	*
	Blacksod Point	46	27	42·6	31·7	37·2	− 5·8	2	37	4	0·13	?	*	*	*	*
	Markree Castle	44	19	41·0	26·6	33·8	− 6·7	0	57	3	0·07	− 0·65	14·9	− 1·0	23	− 1
	Armagh	45	24	40·4	28·4	34·4	− 6·4	0	53	3	0·06	− 0·49	12·7	− 3·1	19	− 4
	Donaghadee	46	30	41·4	33·1	37·3	− 3·7	0	33	2	0·07	− 0·51	*	*	*	*
10. IRELAND, S.	Dublin	45	28	41·3	32·5	36·9	− 5·5	0	36	2	0·07	− 0·43	15·4	− 2·4	23	− 3
	Parsonstown	44	20	39·4	27·0	33·2	− 7·8	0	62	1	0·04	− 0·50	9·1	− 7·7	14	−11
	Kilkenny	44	22	40·7	28·6	34·7	− 7·0	0	51	0	—	− 0·63	*	*	*	*
	Roche's Point	46	29	43·1	33·0	38·1	− 5·8	3	33	0	—	− 1·02	*	*	*	*
	Valencia	45	25	44·0	32·7	38·4	− 6·6	6	34	2	0·02	− 1·23	28·0	+10·7	41	+15
	Killarney	?	23	?	28·9	?	?	?	?	1	0·02	− 1·24	*	*	*	*
	Foynes	46	24	41·5	30·5	36·0	− 6·9	0	42	1	0·07	− 0·68	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	48	30	44·6	36·1	40·4	− 5·4	7	23	2	0·12	− 0·54	20·9	?	30	?
	Jersey	45	26	41·4	31·9	36·7	− 6·4	0	37	5	0·12	− 0·48	17·0	− 6·3	25	− 8

Stations marked 𝔄 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

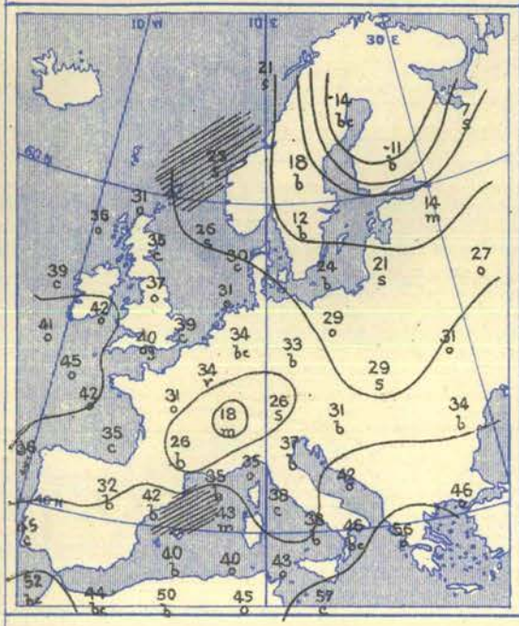
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

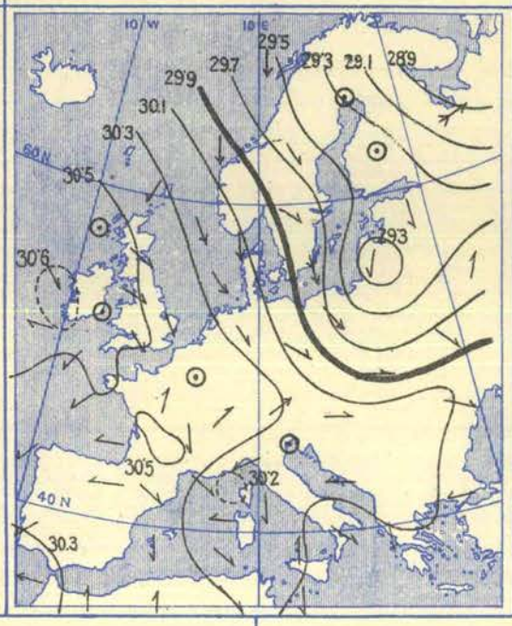
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 10th February.

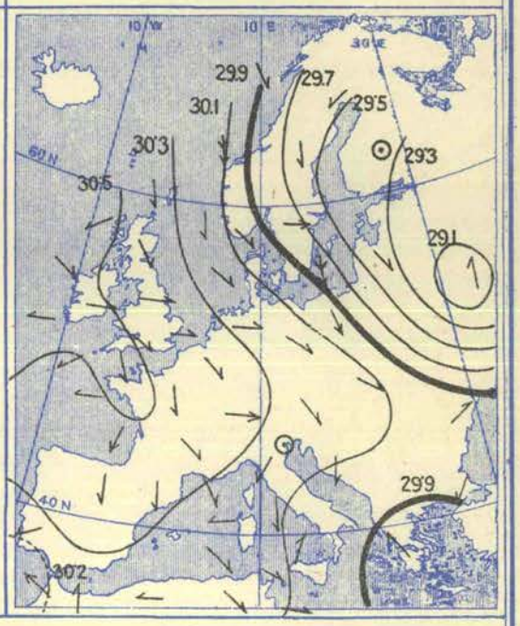
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m



Weather in morning slightly showery at some of our eastern stations, and over the countries lying to the eastward of the North Sea, snow in Norway, at Memel, and at Lemberg. Showers later in all the districts referred to, in Russia, and in Scotland, and the north of Ireland, and weather very gloomy, except in the Channel Islands.

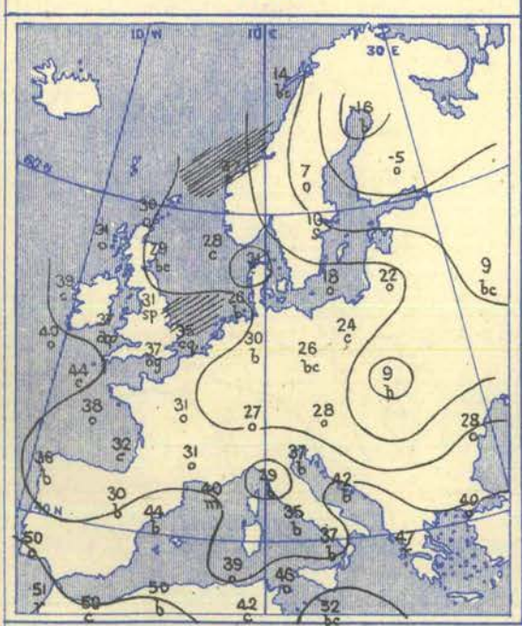
Temperature fallen decidedly in Scotland and northern Europe. Morning readings ranging from 57° at Malta, 50° at Algiers, 45° at Scilly, 41° at Roches Point, Valencia, and Malin Head, to 37° at Loughborough, 33° at Nairn, 23° to 26° on the coast of Norway, 12° at Stockholm, −11° at Kuopio, and −14° at Haparanda; below 40° even on the Italian coasts. Rising later to 46° at Blacksod, 47° at Scilly, and above 40° almost all over our Islands; not touching 30° over Sweden, and only 9° at Haparanda.

Wind calm to very light in our Islands—North-Westerly in the north and east, Northerly to North-Easterly in the south, and North-Easterly to Easterly over the west of France. Northerly to North-Westerly and stronger in Scandinavia, Northerly to Westerly, very strong, over Germany; very variable over southern Europe. Local variations later, and wind lulling over Germany, no general alteration in condition over Europe as a whole.

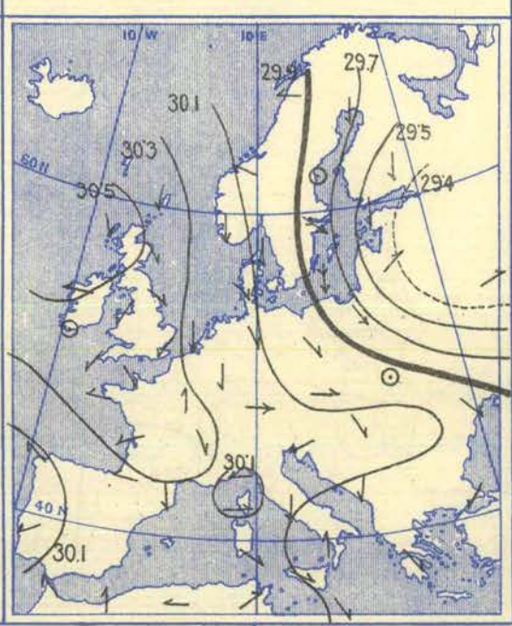
Barometer highest, 30·6 ins., and more over Ireland, and exceeding 30·4 ins. all over the British Isles, France, and the Bay of Biscay. Lowest, 28·9 ins. at Archangel, 29·3 ins. and less in and about Riga, 29·8 ins. and less in the south of Russia. Falling later to about 29·0 ins. over central Russia. Very little change over central Europe.

Monday, 11th February.

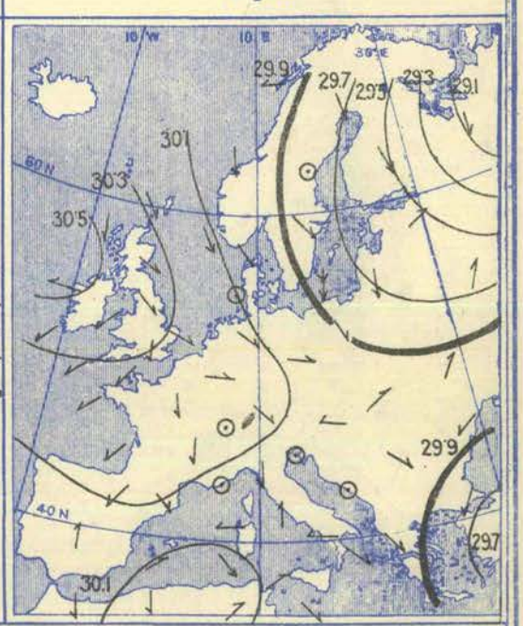
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fair as a whole over the United Kingdom and western Europe, but snow reported at many of the central and northern continental stations. A few showers, sporadically, in our Islands later; much snow at Yarmouth and larger quantities in some parts of central Europe.

Temperature fallen in the north, risen over France and the extreme south of England. Morning readings ranging from 56° at Algiers and Lisbon, 44° at Scilly and 40° at Valencia, to 33° over our north midland counties, 29° at Aberdeen, 9° at Warsaw and Moscow and to −16° at Uleaborg. A recovery later to 48° at Scilly, 44° at Valencia, 40° at Leith, 45° on the south-west coast of France; 54° at Marseilles and 63° at Cagliari and 69° at Nemours. Sharp frost at our own inland stations at night.

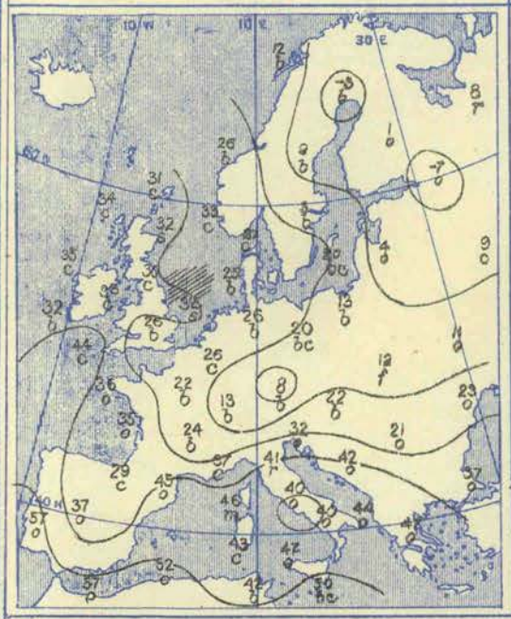
Wind, Northerly, light (North-West to North-East) over the British Islands and western Europe as a whole, Northerly and North-Westerly strong to a gale over the Baltic; very variable and light over southern Europe; Easterly, fresh in Portugal and in the west of Ireland. No important change later.

Barometer, in morning, highest 30·5 ins. to 30·3 ins. over the British Islands and France as a whole. Lowest, 29·4 ins. and less to 29·7 ins. over central Russia and the Baltic; shallow secondaries over the United Kingdom; a large shallow depression over Turkey and a well-marked, but shallow disturbance over the north of the Mediterranean. Changing very little later over north-western Europe (rising and falling alternately), but a new large system appearing over the north of Russia.

Tuesday, 12th February

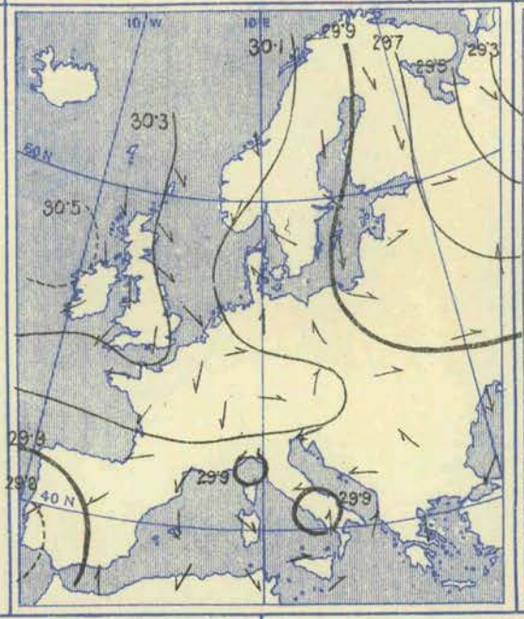
Temperature and Weather.

8 a.m.

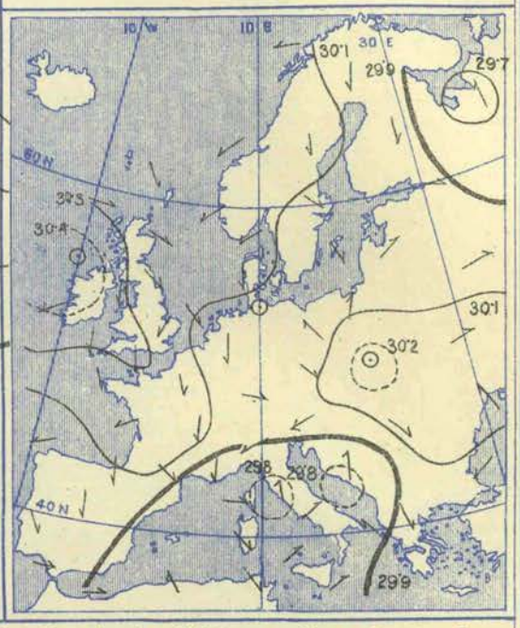


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of northern, western, and central Europe, and in many places clear and bright, snow showers on our east coasts; dull over Russia, cloudy and rainy over the north-eastern parts of the Mediterranean. Snow showers later over the northern and eastern portions of the United Kingdom, but not of any great importance except in the extreme east of Norfolk; some fell over Germany also, rain in Portugal.

Temperature fallen over Continental Europe, England, and Ireland, risen a little in Scotland. Morning readings highest, 50° at Malta, 57° at Lisbon, 44° at Scilly, 38° at Malin Head. Lowest, −8° at Haparanda, −7° at St. Petersburgh, + 9° at Moscow and 7° at Warsaw, 8° at Munich; 20° at Berlin, 22° at Paris. Rising later to 40° and more over Scotland and the west of Ireland, and to between 48° and 50° in the south of France; not exceeding 35° on our north-eastern coast, nor touching 20° over the greater part of Sweden; maximum at Haparanda 10° Fahr.

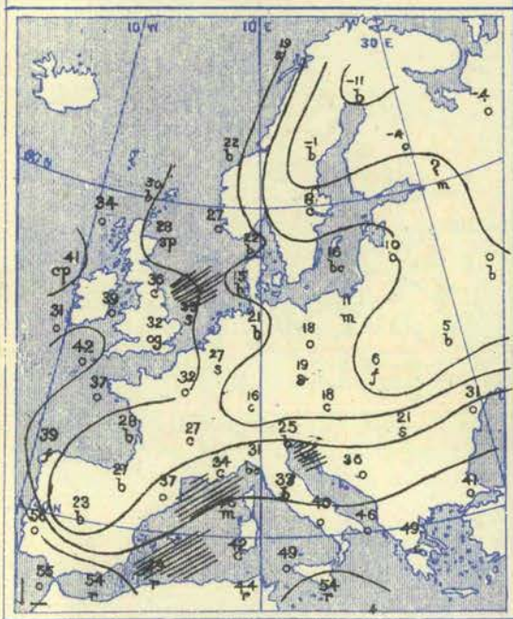
Wind Northerly to North-Westerly, moderate to light, over northern and western Europe, Westerly to Southerly (variable) over Germany, light Southerly at Moscow, separate (cyclonic) circulations over the Mediterranean and the south-west of Spain. No great change later.

Barometer highest, about 30·5 ins. off the extreme north-west of our Islands, and exceeding 30·2 ins. all over our Islands and the northern half of France. Lowest (1), 29·4 ins., and less over the north of Russia; (2) 29·9 ins. and less to 30·0 ins. over the Mediterranean and Adriatic, and (3) about 30·0 ins. in a secondary disturbance over the eastern part of the North Sea. Falling generally later over western Europe, rising over Russia.

Wednesday, 13th February.

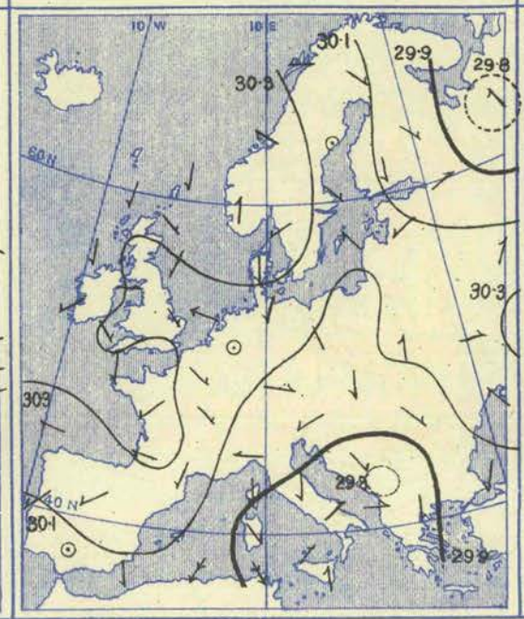
Temperature and Weather.

8 a.m.

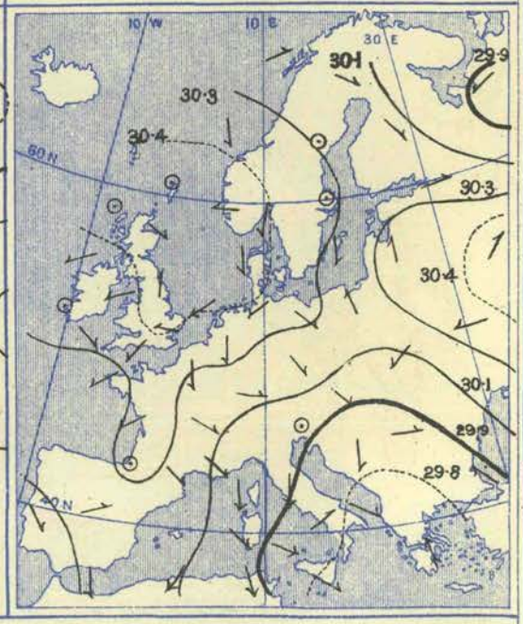


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western Europe as a whole, dull over the north of Russia, and a little snow in Scandinavia and Belgium, rain at Malin Head and Aberdeen, and sleet in various parts of England. Some rain or snow later in various parts of France and the British Islands, but the falls not heavy.

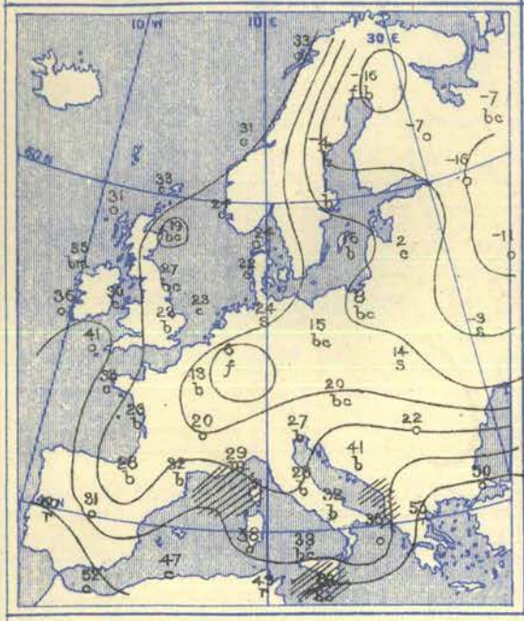
Temperature fallen a little over Great Britain, risen over Ireland and France. Morning readings highest, 54° at Malta and Algiers, 55° at San Fernando; 42° at Scilly, 41° at Blacksod Point. Lowest, −10° over Finland 0 (Zero) Fahr. at Moscow, +8° at Stockholm, 10° at Breslau, 24° at Belfort; 28° at Aberdeen, 30° at Penrith and also at Parsonstown. Rising later to 40° and more at many of our western stations, to 39° at Portland Bill, but not touching 30° over central Germany nor 20° over the north of Sweden.

Wind variable but mainly North-Westerly to Northerly over Scandinavia, Westerly Europe and the Mediterranean, Southerly to Easterly over north Germany. A Northerly gale blowing on the north coast of Africa. An Easterly wind, moderate to fresh in force, mingling with the Northerly over our Islands later. The gale in northern Africa lying down, but a moderate gale from north setting in at Rome.

Barometer highest, (1) 30·3 ins. and more over Norway, Scotland, Ireland and the west of France, and touching 30·39 ins. at Valencia and Roches Point; (2) 30·3 ins. and more to 30·2 ins. over the south of Russia. Lowest, (1) 29·8 ins. and less over the north of Russia; (2) 29·8 ins. and less to 29·9 ins. in a complex set of depressions over the Adriatic and Mediterranean. Latter system moving south-eastwards later, and the former partially filling up.

Thursday, 14th February

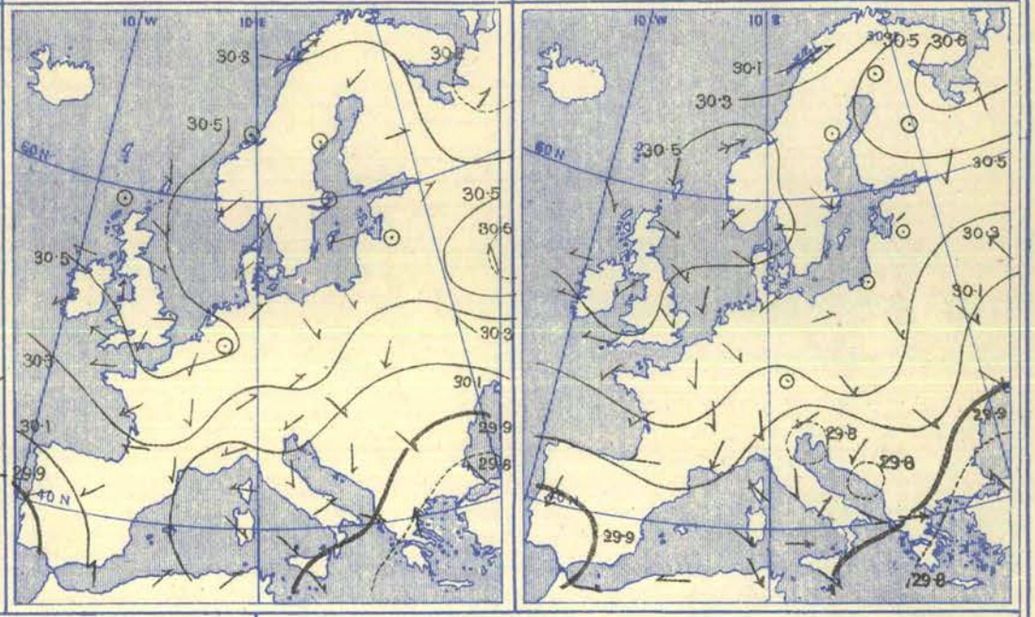
Temperature and Weather. 8 a.m.



Weather in morning fair, and in many places clear, over western Europe; snow in several parts of Russia, rain at Lisbon. Snow later at many of the Russian and British stations, (a considerable fall in the south of Russia) and considerable rain at Lisbon; weather fine in the west and north of the United Kingdom.

Temperature fallen still further over western Europe and now fallen over Russia and southern Europe also. Morning readings highest, 52° at Oran, 50° at Malta and at Lisbon; 41° at Scilly, 36° at Valencia. Lowest, −16° Fahr. at Uleaborg, −11° at Moscow, −2° at Haugö and Riga; +3° at Breslau and Prague, 13° at Paris, 16° at Loughborough. Touching 40° and a little more on our extreme western and northern coasts later, not exceeding 35° over England. Hard frost continuing over central Europe.

Barometer and Wind. 8 a.m. and 6 p.m.

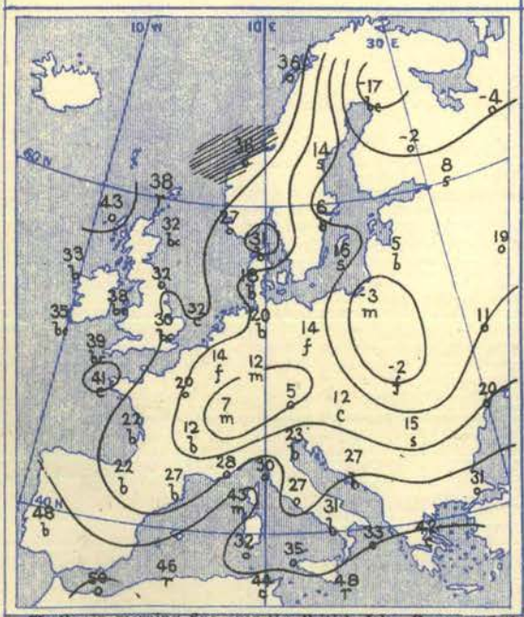


Wind light and variable over northern Europe; variable in direction but stronger in force over the British Islands; North-Easterly to Easterly over the greater part of the south of France, mainly North-Westerly over the Mediterranean. Becoming light over the British Isles later; a fresh gale from South-West setting in at Christiansund.

Barometer highest, (1) 30·5 ins. and more in an anticyclonic system stretching from a position northwards of the British Islands, right across Great Britain to Belgium and the north-eastern parts of France; (2) 30·6 ins. and more to 30·4 ins. over central Russia. Lowest, (1) 29·8 ins. and less to 29·9 ins. over south-eastern Europe; (2) 30·3 ins. and less over Lapland. Gradients slight except over parts of southern and south-eastern Europe. The northern anticyclone a little changed in form later; the barometer falling decidedly in Lapland; fresh definite depressions appearing over the Adriatic.

Friday, 15th February.

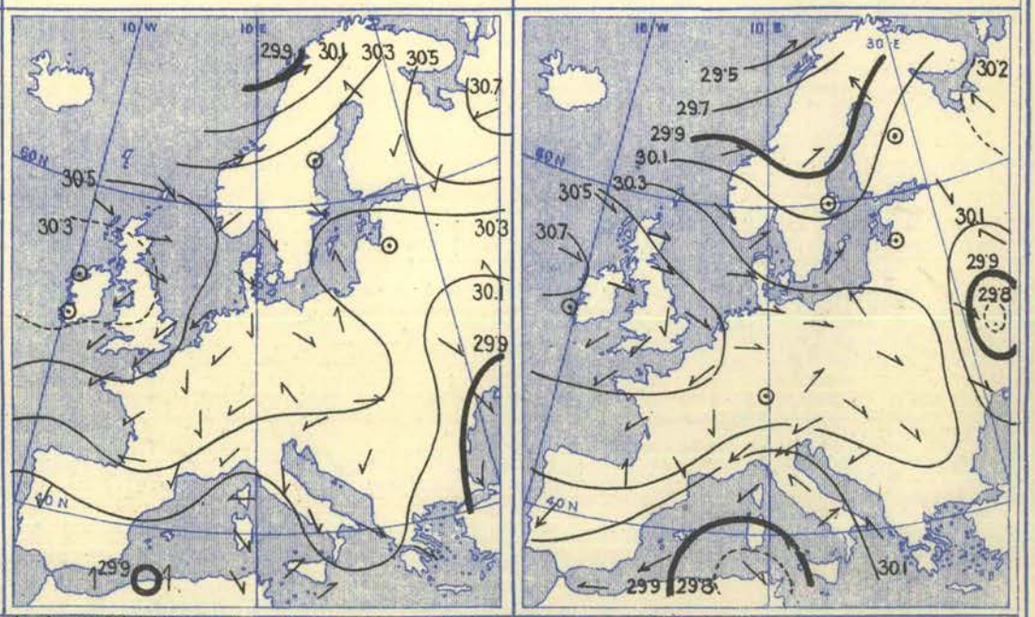
Temperature and Weather. 8 a.m.



Weather in morning fine over the British Isles, France and Spain, clear and bright in most places; dull over Russia, changeable over central Europe—with fog and snow in several places—gloomy and rainlike in the north-west of Norway. A little snow or rain falling sporadically over our Islands later, large amounts locally, in some parts of Algeria, the Mediterranean and south of Russia—the fall at our own northern stations being mainly rain.

Temperature risen decidedly over Great Britain and France, in Russia, and some parts of central Europe, fallen over southern Europe, and also over Ireland. Morning readings highest, 52° at Oran, 48° at Malta and Lisbon; 41° at Brest, 36° at Malin Head; 38° at Sumburgh Head. Lowest, −18° at Uleaborg, +8° at St. Petersburg, −3° at Riga, +5 °to 15° over central Europe, 20° at Paris, 21° at Parsonstown. Rising later to between 59° to 61° on the Algerian coast, 50° at Palermo; to 45° in the south of Ireland and more than 40° in many parts of Scotland.

Barometer and Wind. 8 a.m. and 6 p.m.

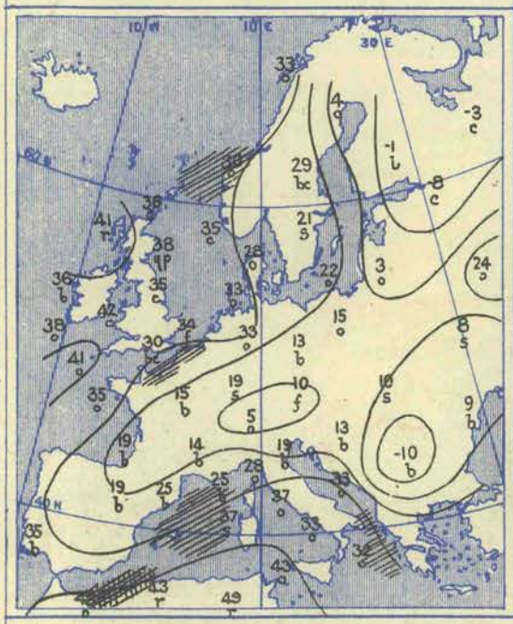


Wind remaining variable, but mainly from some Northerly point over the southern, eastern, and central countries of Europe, as well as in the south of England; backing to West in Scotland, and increasing to a moderate gale from South-West over all the north-western coasts of Norway; moderate but freshening South-Easterly wind at Haparanda. The Westerly current spreading Southwards from Scotland later, the South-Westerly gale in Norway subsiding, but a South-Westerly current spreading slowly to the southward over Scandinavia generally.

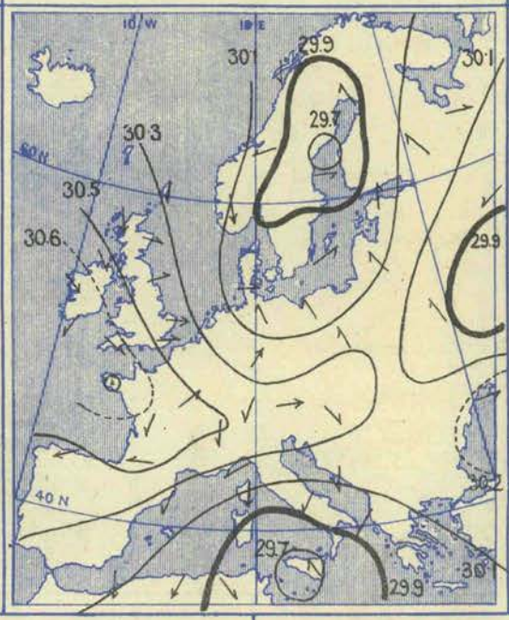
Barometer still highest, (1) 30·6 ins. and more to +30·5 ins. over the British Islands. (2) 30·7 ins. to 30·4 ins. over the north of Russia. Lowest, (1) 29·9 ins. in Algeria, 29·8 ins. and less in the south of Russia; (2) 29·9 ins. to 30·2 ins. in a depression advancing over Finmark, from the Polar Sea. All three low pressure systems encroaching on the high pressure areas later, and weather over northern Europe becoming much milder and softer.

Saturday, 16th February.

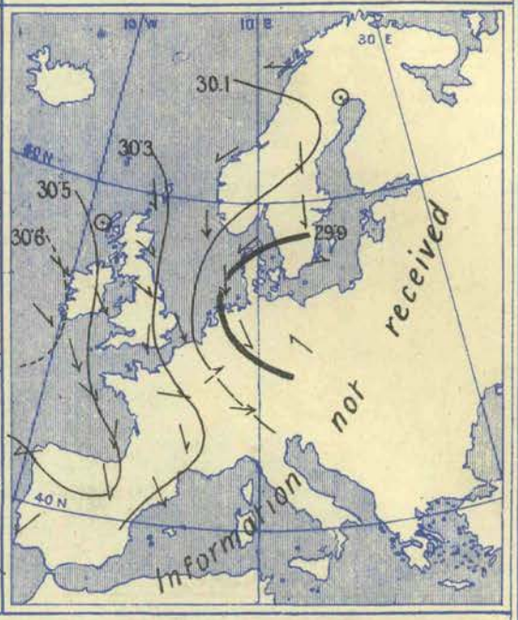
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine over Spain and France, as well as in some parts of central Europe, changeable and unsettled elsewhere, with cold rain or snow at many of the stations. Showers later in many parts of the British Islands and over Continental Europe, chiefly the northern, eastern, and central countries. Air becoming (temporarily) much softer over the United Kingdom

Temperature risen throughout our Islands and Sweden, fallen over France and central Europe, and beginning to fall again on the extreme north-west coasts. Morning readings highest, 49° at Tunis, 48° at Oran, exceeding 40° at many of our western and northern stations. Lowest, −16° to Zero over Finland and the north of Russia; +5° to 20° over central Europe, 15° at Paris, 19° at Biarritz, 28° at Nice, and 30° even at Aumale (central Algeria). Rising greatly in the British Islands later, and touching 46° at some stations but tending to fall again towards night.

Wind moderate to fresh, Northerly to Westerly, over the British Islands, North-Easterly, light, over France, and more Easterly over Spain. Cyclonic circulations found over Scandinavia and Finland, the south of Russia, and the Mediterranean, but none very strong in force. Becoming more Northerly later, and freshening over the eastern shores of the North Sea and on the Norwegian coast.

Barometer highest, 30·6 ins. to 30·7 ins. over Ireland, the south-west of Cornwall, Brittany and the northern part of the Bay of Biscay; exceeding 30·5 ins. over all our western districts and the west of France. Lowest, 29·7 ins. and less in two depressions, one over Sweden, the other between Scilly and Tunis; (2) 29·8 ins. and less in another over southern inland parts of Russia. Barometer falling in our Islands during day; the Swedish depression moving quickly southwards. (Information from eastern Europe not yet to hand).

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was highest (30·6 ins. to 30·4 ins.) over the whole of the British Islands and France, and varied from 30·2 ins. to 30·0 ins. in a ridge of somewhat irregular form which stretched away to south-eastern Europe. To the north-eastward readings decreased to about 28·9 ins. over the White Sea, to 29·3 ins. and less near Riga, and to the south-eastward they decreased to 30·1 ins. and less over the south-eastern parts of the Mediterranean. The low pressure minima changed their position from time to time, some disappearing and others being developed, and varying in intensity; but no decided alteration from high western and low eastern pressures occurred during the greater part of the week.

After Tuesday, a second high-pressure appeared over Russia, and during Friday and Saturday a depression moved southwards from Lapland, over Denmark to Germany, its secondaries producing a temporary amelioration of the cold weather over our Islands.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 38.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	18·9	+ 5·1	30	+ 8	BRIGHTON	21·7	+ 2·7	32	+ 4
STRATHPEFFER SPA	22·9	+ 7·7	36	+12	WORTHING	22·6	?	33	?
EDINBURGH	25·2	+11·8	39	+17	BOGNOR	21·2*	?	31*	?
MORPETH	28·3	?	43	?	WATERGATE (Emsworth)	22·5	?	33	?
NEWCASTLE-ON-TYNE	20·8	?	31	?	WESTBOURNE (Emsworth)	17·9*	− 1·7	26*	− 2
OSWALDKIRK (Yorkshire)					VENTNOR HOSPITAL	21·4	+ 1·4	31	+ 2
LOWESTOFT	24·3	?	36	?	SOUTHPORT	31·6	?	48	?
HOLLESLEY BAY	26·1	?	38	?	RHYL	*	?	*	?
SHEFFIELD	19·5	?	29	?	COLWYN BAY	30·5	?	46	?
WORKSOP	20·7	+ 6·4	31	+ 9	ABERDOVEY	30·1*	?	45*	?
THURCASTON (Leicestershire)	22·3	+ 7·1	33	+11	TENBY	26·9	+ 7·9	40	+10
MARGATE	17·9	+ 0·5	26	0	NEWQUAY	29·0	+ 9·3	42	+14
BROADSTAIRS	19·8	?	29	?	TORQUAY	22·9	+ 4·9	33	+ 7
EASTBOURNE	23·2	+ 4·6	34	+ 7	GUERNSEY	10·4*	−11·6	15*	−17

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 8.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 23RD, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 44.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
							For the Week.				From December 30th, 1900.			
	Highest.	Lowest.	Averages of				Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean
			Daily Maxima.	Daily Minima.	Daily Mean.									
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.														
0. SCOTLAND, NORTH	51	22	43·9	32·5	38·2	0 (average)	5	− 3	35	0	38	−15	286	− 1
1. SCOTLAND, EAST	51	18	43·3	31·4	37·4	1 below	4	− 7	38	− 2	19	−46	350	+19
2. ENGLAND, N.E.	47	26	40·9	32·7	36·8	2 below	0	−12	36	+ 3	31	−38	302	+18
3. ENGLAND, EAST	47	21	39·1	30·3	34·7	5 below	0	−13	51	+15	34	−40	354	+38
4. MIDLAND COUNTIES	48	18	41·0	30·8	35·9	3 below	0	−15	43	+ 7	33	−56	365	+47
5. ENGLAND, SOUTH	49	21	40·3	30·3	35·3	5 below	0	−17	47	+20	54	−51	297	+54
Principal Grazing, &c., Districts.														
6. SCOTLAND, WEST	50	22	44·7	33·3	39·0	1 below	8	− 3	32	+ 4	50	−31	255	+18
7. ENGLAND, N.W.	46	24	41·4	32·1	36·7	3 below	0	−12	37	+10	38	−44	283	+53
8. ENGLAND, S.W.	49	22	43·0	32·0	37·5	4 below	3	−16	36	+14	64	−68	240	+59
9. IRELAND, NORTH	50	23	45·8	34·4	40·1	1 below	11	− 5	29	+ 5	78	−35	198	− 2
10. IRELAND, SOUTH	51	24	45·5	32·2	38·9	4 below	10	−13	37	+20	102	−67	195	+42
—CHANNEL ISLANDS	50	31	44·8	35·2	40·0	5 below	8	−18	26	+17	168	−26	114	+37

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 44.)	Rainfall. For the Week.			Rainfall. From December 30th, 1900.				Bright Sunshine. For the Week.				Bright Sunshine. From December 30th, 1900.			
	No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.															
0. SCOTLAND, NORTH	5	7	3 less	40	+ 2	6·4	− 3·1	11	− 4	17	− 5	70	− 4	16	− 1
1. SCOTLAND, EAST	4	2	3 less	30	0	3·4	− 1·5	11	− 7	16	−11	84	−14	18	− 4
2. ENGLAND, N.E.	5	3	1 less	32	+ 3	3·3	− 0·1	9	− 9	13	−13	72	−16	18	− 3
3. ENGLAND, EAST	5	3	1 less	28	− 3	2·7	− 0·7	10	−12	15	−17	116	− 9	21	− 2
4. MIDLAND COUNTIES	3	1	4 less	30	+ 1	4·0	− 0·2	8	−10	11	−14	80	−16	18	− 3
5. ENGLAND, SOUTH	3	1	4 less	26	− 4	3·2	− 1·4	17	− 4	24	− 5	124	+ 4	24	+ 1
Principal Grazing, &c., Districts.															
6. SCOTLAND, WEST	2	3	8 less	31	− 5	5·5	− 4·4	8	− 8	12	−11	103	+15	22	+ 3
7. ENGLAND, N.W.	4	1	5 less	33	+ 1	3·5	− 1·8	10	− 8	15	−11	102*	0	20	0
8. ENGLAND, S.W.	1	less than ½	8 less	28	− 7	5·4	− 1·7	24	+ 4	34	+ 6	130	+15	28	+ 3
9. IRELAND, NORTH	5	2	5 less	38	+ 1	4·5	− 1·1	15	− 3	22	− 3	106	+ 7	22	+ 1
10. IRELAND, SOUTH	2	1	6 less	30	− 6	4·7	− 2·6	12	− 8	17	−11	113	− 5	23	− 1
— CHANNEL ISLANDS	3	1	5 less	37	+ 1	4·7	− 1·0	20	− 9	28	−13	131	−25	23	− 5

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was very cloudy or dull over the greater part of the Kingdom, with frequent slight falls of snow or sleet in the north and west, and occasional showers in most of the more southern districts.

Temperature continued considerably below the mean generally until towards the end of the period, when it rose suddenly. The mean values for the week were below the normal in all districts excepting Scotland N., the deficit ranging from 1° in Scotland E. and W. and Ireland N., to 4° in England S.W. and Ireland S., and to 5° in England E. and S., and the Channel Islands. The highest of the maxima were experienced about the middle of the week at some of the Irish and Scotch stations, but on Friday or Saturday elsewhere. They ranged from 51° or 50° in Ireland, Scotland, and the Channel Islands, to 47° in England E. and N.E., and to 46° in England N.W. The lowest of the minima were registered during the early hours of the 21st or 22nd, when the thermometer fell to 18° in Scotland E. and the Midland Counties, and to between 21° and 24° in almost all other districts; in England N.E., the lowest reading was 26°, and in the Channel Islands 31°.

Rainfall was less than the mean in all districts, the fall being especially slight over Ireland, and western, southern, and central England.

Bright Sunshine was generally much less than the normal for the time of year, but exceeded it in England S.W. The percentage of the possible duration ranged from 34 in the last-named district and from 28 in the Channel Islands to 13 in England N.E., 12 in Scotland W., and 11 in the Midland Counties.

Barometer and Wind.—The distribution of pressure over our Islands and their immediate neighbourhood was mainly anticyclonic. It was, however, at the same time rather complicated owing to the presence for some days of two such areas—one over our more western districts and the other to the eastward of our Islands. The appearance of a shallow depression over the North Sea (secondary to a large system in the far north) on Thursday caused the eastern high pressure to move southward and partially disperse, and from this time until the end of the week an area of high pressure extended from Ireland over the greater part of England and France to Germany. By the end of the week a large and deep depression had approached Sweden from the north-westward and the barometer was falling over our Islands. Light and variable winds from some Northerly point were prevalent during the greater part of the period, but during the latter days of the week a North-Westerly current of increasing strength gradually spread over the Kingdom.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 43 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	31	42·4	33·7	38·1	+ 0·1	1	30	6	0·31	− 0·43	*	*	*	*
	Stornoway	47	29	45·4	33·9	39·7	+ 0·7	10	31	5	0·88	− 0·03	14·2	− 3·2	21	− 4
	Wick	46	30	43·4	31·9	37·7	− 0·3	4	37	6	0·72	+ 0·21	*	*	*	*
	Lairg Ⓢ	? 51	22	? 45·4	28·9	? 37·2	? + 1·4	? 10	? 49	6	0·87	+ 0·15	*	*	*	*
	Glencarron Ⓢ	44	27	42·2	33·6	37·9	+ 0·8	1	30	6	1·46	− 0·21	*	*	*	*
	Fort Augustus Ⓢ	49	23	45·4	32·2	38·8	+ 0·3	10	37	5	0·18	− 0·74	11·9	0·0	18	0
	Fort William Ⓢ	45	27	43·3	33·6	38·5	− 0·7	4	31	4	0·47	− 1·33	10·5	− 4·5	15	− 6
1. SCOTLAND, E.	Nairn	47	29	44·0	32·3	38·2	0·0	6	36	6	0·48	+ 0·09	*	*	*	*
	Aberdeen	45	32	42·1	33·7	37·9	− 0·6	0	29	5	0·41	− 0·14	11·0	− 9·2	16	−14
	Braemar Ⓢ	42	18	39·0	26·9	33·0	− 1·9	0	63	2	0·08	− 0·60	*	*	*	*
	Ochtertyre Ⓢ	51	26	48·4	31·4	39·9	+ 1·7	18	42	1	0·02	− 0·79	*	*	*	*
	Leith	48	32	44·6	33·9	39·3	− 0·7	7	31	3	0·06	− 0·30	*	*	*	*
	Marchmont Ⓢ	45	28	41·6	30·3	36·0	− 1·7	0	42	4	0·31	− 0·28	13·3	− 5·4	19	− 8
2. ENGLAND, N.E	Alnwick Castle	44	30	41·6	32·5	37·1	− 1·7	0	34	6	0·36	− 0·19	*	*	*	*
	Durham	43	29	39·7	32·0	35·9	− 2·5	0	43	5	0·22	− 0·18	4·3	−12·9	6	−20
	Shields	43	31	41·1	33·1	37·1	− 2·4	0	34	5	0·31	− 0·07	*	*	*	*
	Scarborough ℳ	43	33	41·3	34·7	38·0	− 1·7	0	28	6	0·23	− 0·22	11·3	?	16	?
	Spurn Head	43	31	41·0	33·7	37·4	− 1·8	0	32	4	0·27	− 0·07	*	*	*	*
	Fulbeck (Lincolnshire)	47	26	40·5	30·3	35·4	− 3·1	0	46	5	0·51	+ 0·14	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	45	26	38·8	31·4	35.1	− 3·9	0	48	7	0·67	+ 0·23	8·9	−11·0	13	−15
	Yarmouth	43	25	38·1	29·7	33·9	− 4·9	0	57	6	0·32	− 0·11	*	*	*	*
	Geldeston	47	23	39·3	29·4	34·4	− 5·2	0	53	4	0·29	− 0·09	9·0	−11·7	13	−16
	Cambridge	47	21	40·3	29·6	35·0	− 4·6	0	49	5	0·25	− 0·09	6·9	−13·1	10	−18
	Felixstowe	44	30	38·8	32·2	35·5	− 4·1	0	46	1	0·16	?	14·0†	?†	20†	?†
	Rothamsted	45	21	39·0	29·4	34·2	− 4·8	0	55	6	0·22	− 0·26	6·2	−13·0	9	−18
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	29	42·3	32·7	37·5	− 2·0	1	33	3	0·22	− 0·16	*	*	*	*
	Loughborough	47	25	41·7	30·6	36·3	− 3·4	0	40	5	0·21	− 0·22	*	*	*	*
	Colly Weston (Stamford)	46	25	41·7	30·0	35·9	− 2·9	0	43	6	0·42	?	*	*	*	*
	Cheadle ℳ	42	28	39·2	30·4	34·8	− 3·4	0	50	3	0·09	− 0·49	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	43	26	39·7	31·8	35·8	− 3·7	0	43	3	0·11	− 0·29	3·7	?	5	?
	Churchstoke ℳ	44	24	40·8	28·9	34·9	− 4·1	0	50	1	0·04	− 0·55	6·2	−13·5	9	−18
	Hereford (Belmont) ℳ	47	26	42·1	31·0	36·6	− 3·5	0	39	2	0·03	− 0·47	*	*	*	*
	Cirencester	46	18	41·0	31·0	36·0	− 2·8	0	42	2	0·05	− 0·53	11·6	− 9·2	16	−12
	Oxford	48	24	40·9	30·4	35·7	− 4·4	0	44	4	0·13	− 0·30	9·3	−10·2	13	−13
5. ENGLAND, S.	London	46	27	40·0	30·1	35·1	− 5·7	0	48	4	0·15	− 0·25	4·3†	− 7·8†	6†	−10†
	Swarraton (Alresford) ℳ	44	21	38·8	28·9	33·9	− 5·1	0	57	3	0·13	− 0·49	*	*	*	*
	Dungeness	46	26	39·9	29·0	34·5	− 5·8	0	53	2	0·05	− 0·27	?		?	?
	Hastings (St. Leonards)	46	25	39·1	30·0	34·6	− 6·0	0	52	4	0·13	− 0·38	20·8	− 2·7	29	− 3
	Southampton	48	24	42·9	31·7	37·3	− 4·5	3	37	2	0·02	− 0·56	15·7	− 5·3	22	− 7
	Portland Bill	49	27	42·6	32·3	37·5	− 5·4	2	35	2	0·02	?	*	*	*	*
	Shaftesbury ℳ	44	25	38·6	29·8	34·2	− 5·3	0	55	3	0·11	− 0·51	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	50	31	46·0	35·2	40·6	+ 0·3	11	27	3	0·82	− 0·77	*	*	*	*
	Glasgow	47	29	43·1	33·9	38·8	− 0·6	3	29	1	0·06	− 0·68	5·1	− 7·7	7	−11
	Glenlee Ⓢ	48	22	45·1	29·4	37·3	− 1·3	9	47	2	0·03	− 1·11	*	*	*	*
	Douglas (Isle of Man)	48	27	44·6	34·6	39·6	− 1·3	7	28	3	0·08	− 0·72	10·9	− 9·0	16	−12
7. ENGLAND, N.W.	Newton Reigny	44	24	40·0	27·4	33·7	− 3·8	0	58	4	0·13	?	3·4	?	5	?
	Stonyhurst	45	26	39·8	30·9	35·4	− 3·8	0	46	7	0·22	− 0·60	10·4	− 6·6	15	− 9
	Blackpool ℳ	44	27	43·0	32·5	37·8	− 2·0	3	34	5	0·13	− 0·42	9·6	− 7·9	14	−10
	Manchester (Prestwich)	44	25	39·9	30·0	35·0	− 4·2	0	49	5	0·21	− 0·34	4·0	?	6	?
	Liverpool Obsy. (Bidston)	43	31	40·7	33·3	37·0	− 3·3	0	35	4	0·10	− 0·33	10·1	?	14	?
	Llandudno ℳ	44	29	42·7	35·3	39·0	− 3·1	2	24	2	0·02	− 0·50	9·4	−10·1	13	−14
	Holyhead	46	32	43·4	35·0	39·2	− 2·8	4	25	2	0·05	− 0·55	*	*	*	*
8. ENGLAND, S.W.	Llandovery	46	22	42·3	27·3	34·8	− 5·0	1	52	2	0·04	− 0·94	*	*	*	*
	Pembroke	46	32	44·0	34·3	39·2	− 3·3	6	29	0	—	− 0·63	19·0	− 2·7	27	− 3
	Clifton	47	28	41·9	32·1	37·0	− 4·4	0	35	0	0·01	− 0·61	*	*	*	*
	Bath	49	26	42·8	31·4	37·0	− 4·5	2	38	1	0·03	?	14·3	?	20	?
	Arlington (N. Devon)	46	25	42·0	31·1	36·6	− 4·2	0	38	1	0·06	− 0·94	*	*	*	*
	Cullompton ℳ	49	27	43·7	32·1	37·9	− 3·8	5	36	0	—	− 0·69	25·0	+ 5·7	35	+ 8
	Falmouth	47	29	43·7	34·6	39·2	− 4·8	5	27	3	0·02	− 0·89	33·4	+10·6	46	+14
	Plymouth	48	30	43·8	33·1	38·5	− 4·5	5	33	0	—	− 0·70	22·4	+ 0·9	31	+ 1
9. IRELAND, N.	Malin Head	48	35	45·3	39·3	42·3	+ 0·5	13	8	6	0·23	?	*	*	*	*
	Londonderry	50	30	46·1	35·5	40·8	− 0·6	11	26	5	0·15	− 0·59	*	*	*	*
	Edenfel (Omagh)	48	23	44·6	31·6	38·1	− 1·1	7	38	3	0·14	− 0·51	*	*	*	*
	Blacksod Point	49	31	47·3	35·6	41·5	− 1·5	15	26	6	0·25	?	*	*	*	*
	Markree Castle	50	27	47·3	31·9	39·6	− 1·4	15	39	3	0·28	− 0·46	22·7	+ 5·1	33	+ 8
	Armagh	48	25	44·9	32·3	38·6	− 1·9	8	36	4	0·06	− 0·49	7·5	− 9·9	11	−14
	Donaghadee	49	31	45·4	34·7	40·1	− 1·2	10	28	5	0·28	− 0·28	*	*	*	*
10. IRELAND, S.	Dublin	48	29	44·6	34·0	39·3	− 3·3	7	30	3	0·05	− 0·45	12·7	− 7·3	18	−10
	Parsonstown	46	28	43·1	30·6	36·9	− 4·3	3	41	3	0·39	− 0·12	2·8	−15·7	4	−22
	Kilkenny	47	24	44·4	29·4	36·9	− 5·1	7	46	2	0·21	− 0·39	*	*	*	*
	Roche's Point	48	32	45·9	34·7	40·3	− 3·7	11	28	1	0·07	− 0·91	*	*	*	*
	Valencia	50	29	47·7	32·3	40·0	− 5·0	16	38	2	0·08	− 1·09	21·2	+ 0·7	30	+ 1
	Killarney	51	27	48·5	31·6	40·1	− 3·5	18	41	1	0·04	− 1·14	*	*	*	*
	Foynes	46	30	44·0	33·1	38·6	− 4·4	6	33	1	0·01	− 0·71	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	33	46·6	36·9	41·8	− 4·0	13	21	3	0·03	− 0·59	27·2	?	38	?
	Jersey	48	31	42·9	33·4	38·2	− 5·3	3	31	3	0·15	− 0·43	21·3	− 4·6	30	− 6

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

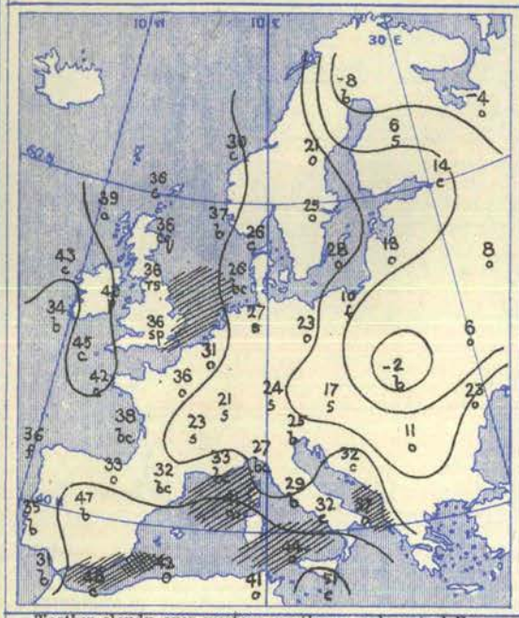
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 17th February.

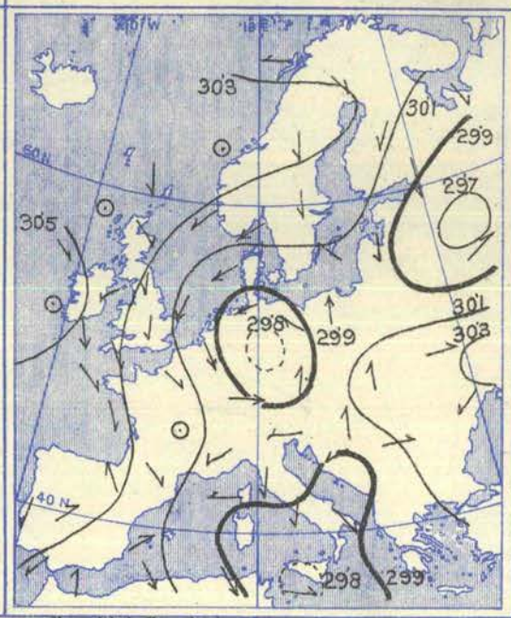
Temperature and Weather. 8 a.m.

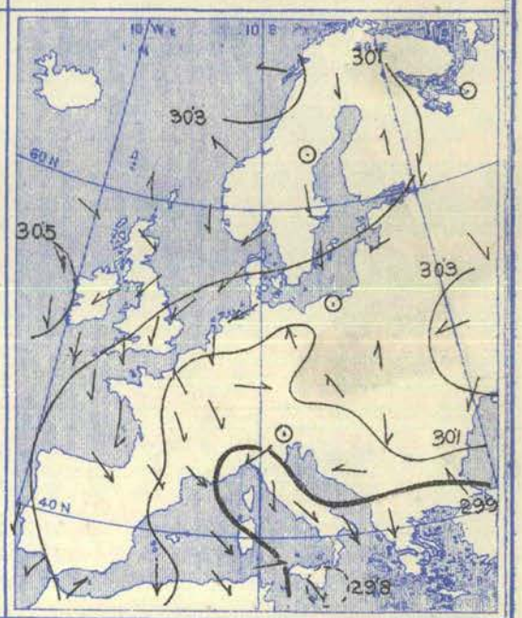


Weather cloudy over western, northern, and central Europe generally, with hail and snow showers in the east and south-east of England; snow falling also in many parts of Germany and Austria, and central France, as well as at Kuopio. Fine over the Spanish Peninsula, Italy and the extreme south of France. Snow showers falling during day in nearly all parts of England, and rain in Ireland and Scotland as well as in the south of Italy.

Temperature risen considerably in France, Germany, and Austria, and also over western Russia, fallen or changed very irregularly elsewhere. Morning readings highest, 51° at Malta, 48° at Nemours and 47° at Madrid; above 40° over the central and southern parts of the Mediterranean generally, and also in the Scilly Islands and the north-west of Ireland. Lowest, (1) −8° Fahr. at Haparanda and −5° at Uleaborg; (2) −2° at Lemberg; considerably below the freezing point over northern, eastern, and central Europe generally, the frost area embracing also the north of Italy. Rising during day to 45° and upwards on the west coasts of our Islands and France exceeding 50° at many of the Mediterranean stations

Barometer and Wind. 8 a.m. and 6 p.m.



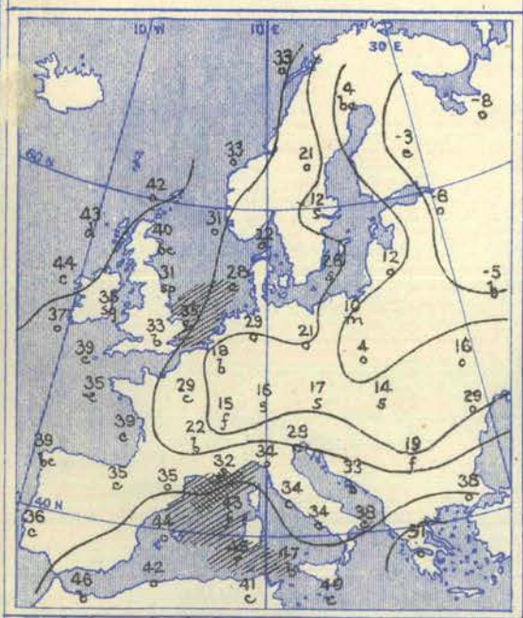


Wind light to moderate from the North-Eastward over the greater parts of northern Europe, and from the Northward or North-Westward over our Islands, France, and Italy. Westerly in south Germany; Southerly or South-Easterly over Austria and eastern Germany. Variable or South-Westerly in the south of Russia; light from the Eastward or North-Eastward on the Portuguese coast. Subsequently veering to the North-Eastward in many parts of England and blowing very strongly on our east coasts.

Barometer highest, 30·5 ins. and upwards in an anticyclone extending from the Atlantic over the west and south of Ireland; 30·3 ins. and upwards in another system over the south of Russia. Lowest, 29·8 ins. and less in three depressions—one lying over central Russia, another over central Germany, and the third near Malta. Russian and German depressions both filling up later; disturbance near Malta moving slowly eastwards.

Monday, 18th February.

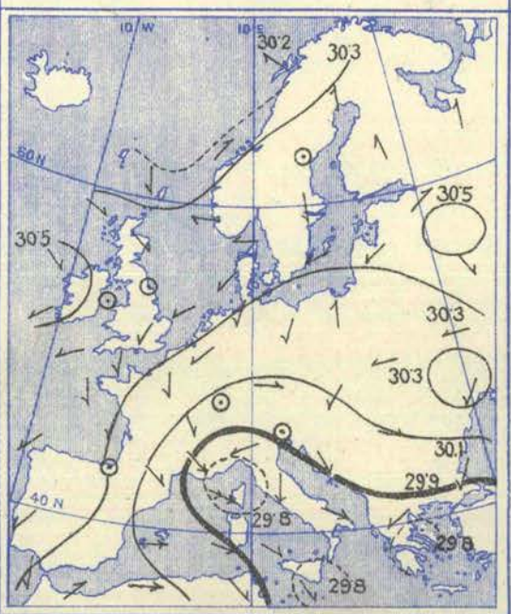
Temperature and Weather. 8 a.m.

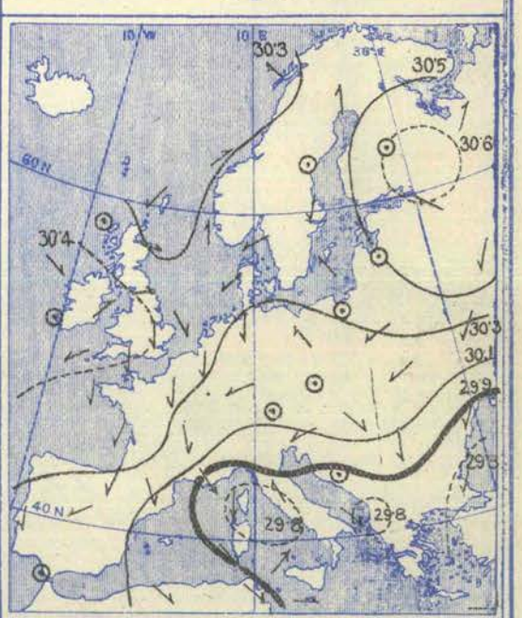


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in the northern parts of Ireland and Scotland, and snow in the north of England; snow falling also at many isolated stations in northern and central Europe. Fine in the extreme south of England and also over the Spanish Peninsula and southern Italy. Rain, sleet, or snow falling later in most parts of the United Kingdom; heavy rain reported at some of the Italian stations—as much as 0·9 inch at Rome.

Temperature fallen generally, but risen in Scotland and also in Italy. Morning readings highest, 51° at Athens, 49° at Malta, and 47° at Palermo; above 40° over the central and southern parts of the Mediterranean generally, and also on our own extreme north and north-west coasts. Lowest −8° Fahr. at Archangel, −6° at St. Petersburgh, and −3° at Kuopio; considerably below the freezing point over northern, eastern, and central Europe generally, and slightly below it in the north of England. Daily maxima below 40° at several of the English stations, but thermometer rising to 45° and upwards on many parts of our western and northern coasts

Barometer and Wind. 8 a.m. and 6 p.m.



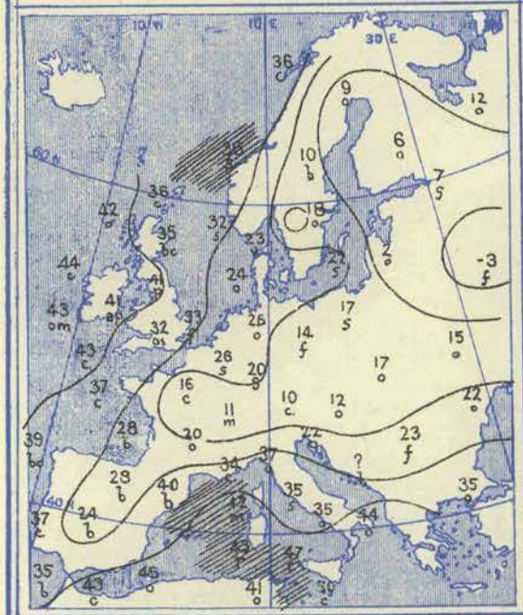


Wind, light to moderate, from the North-Westward in the northern parts of our Islands, but from the Southward or South-Eastward in the west of Norway; North-Easterly in Denmark, Germany, the south of Scandinavia, and the southern parts of the United Kingdom; Northerly over France and the Spanish Peninsula, and North-Westerly in Italy. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards over Ireland; 30·4 ins. and upwards in an anticyclone covering the whole of Ireland and England, and also in another system extending from central Russia over Denmark and the south of Scandinavia. Lowest, 29·8 ins. and less in three depressions—one lying over the Gulf of Genoa; another, a little to the eastward of Malta; and the third, off the coast of Greece; 30·2 ins. and less in a large shallow area off the west of Norway. No decided change occurring later.

Tuesday, 19th February.

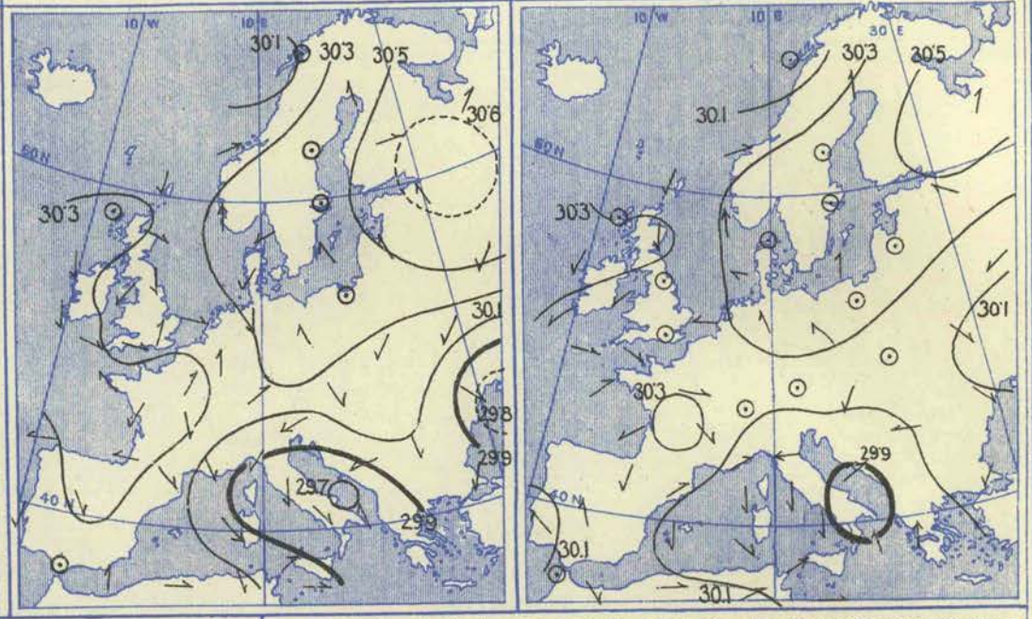
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog and snow or cold rain at many of the English stations; snow falling also in several parts of northern and central Europe as well as at Rome. Fine over the Spanish Peninsula. Slight rain falling during day in many parts of Great Britain, and snow at some of the Scandinavian stations.

Temperature risen over Ireland and England, and also in Russia, fallen elsewhere. Morning readings highest, 50° at Malta, 47° at Palermo, and 45° at Algiers; above 40° over the central and southern parts of the Mediterranean, and also in the western parts of the United Kingdom. Lowest, −3° Fahr. at Moscow, −1° at Prague, +2° at Riga, and 6° at Kuopio and Breslau; considerably below the freezing point over northern and central Europe generally. Rising during day to 45° and upwards at many of our own western and northern stations, and to 50° at Valencia (Ireland) and Scilly; remaining below 40° in the east and south-east of England, and below the freezing point over a considerable portion of France and Germany.

Barometer and Wind. 8 a.m. and 6 p.m.

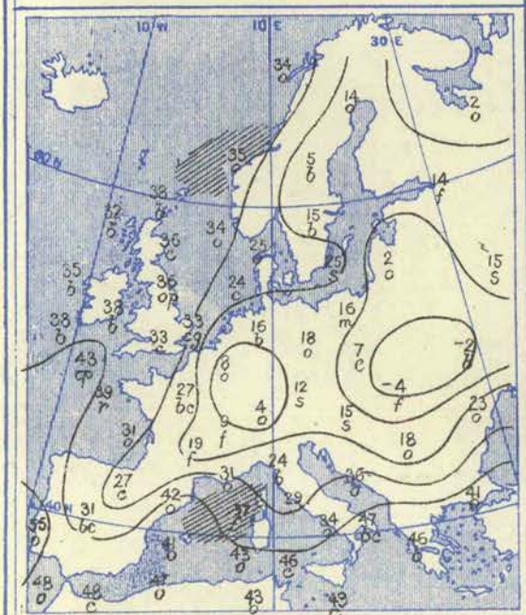


Wind light from the Northward in Ireland and Wales, from the Westward or South-Westward over England and the north of France, and from the Southward over the Netherlands; variable in Scotland. Easterly or North-Easterly over the Bay of Biscay and the west and north of Spain, and also over northern Italy; North-Westerly in the south of France and central Italy; variable in Germany and Austria; Southerly (South-Easterly to South-Westerly) over the greater part of Scandinavia. Subsequently shifting to the Eastward or North-Eastward at most of the English stations.

Barometer highest, 30·3 ins. and upwards over northern Russia, 30·3 ins. and upwards in an anticyclone covering the whole of northern Europe, and also in another system extending from the Atlantic over the greater part of Ireland, Scotland and France. Lowest, 29·8 ins. and less in two depressions,—one lying over the extreme south of Russia, and the other over central and southern Italy; small shallow depressions reported over various parts of England and the North Sea. Latter small systems uniting later and moving southwards.

Wednesday, 20th February.

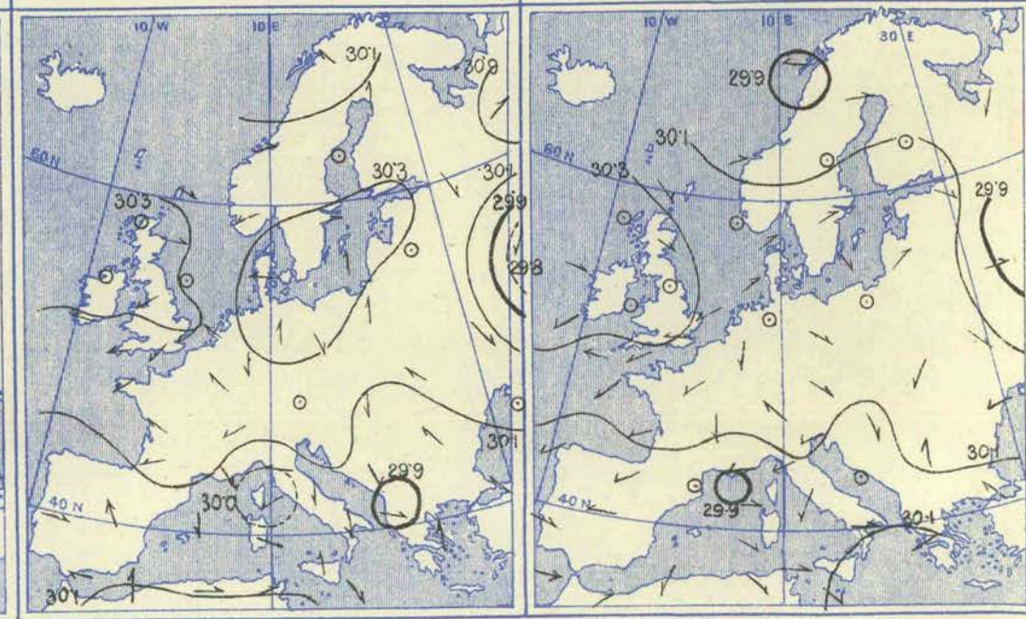
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over Europe, as a whole, with slight snow at some of the English stations and rain at the mouth of the Channel; snow reported also in Austria and south Germany, as well as at Moscow and Helsingfors. Fine in the north of Scotland and the west and south of Ireland, and also in Holland and Sweden. Sky clearing later in many parts of western Europe, but rain falling at several of the Spanish and Mediterranean stations—heavily (1·8 in.) at Malta.

Temperature fallen generally but risen rapidly over the Spanish Peninsula and also over central Russia. Morning readings highest, 55° at Lisbon, 49° at Malta, and 48° at San Fernando, Nemours and Oran; above 40° over the central and southern parts of the Mediterranean generally, and also in the Scilly Islands. Lowest, −4° Fahr. at Lemberg, −3° at Kharkov, and −2° at Kiev; hard frost reported over northern, eastern, and central Europe generally; thermometer below 10° in western Germany and the east of France. Rising during day to 45° and upwards at several of our own western and extreme northern stations, but frost prevailing in nearly all parts of the Kingdom at night.

Barometer and Wind. 8 a.m. and 6 p.m.

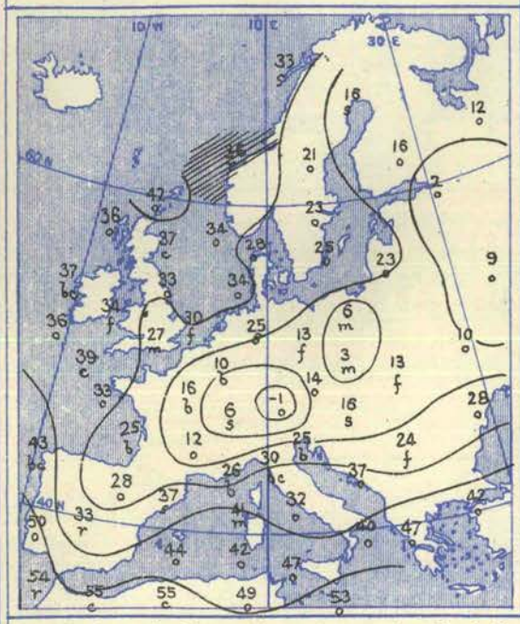


Wind light from the North-Westward over the northern parts of our Islands, but Easterly or North-Easterly in all the more southern districts, and also over France and the Netherlands. Southerly or South-Westerly at most of the Scandinavian stations; variable over Denmark and the Baltic; Northerly or North-Westerly over Germany, Austria, and central Italy. Variable over the Spanish Peninsula and the Mediterranean. No important change occurring during day.

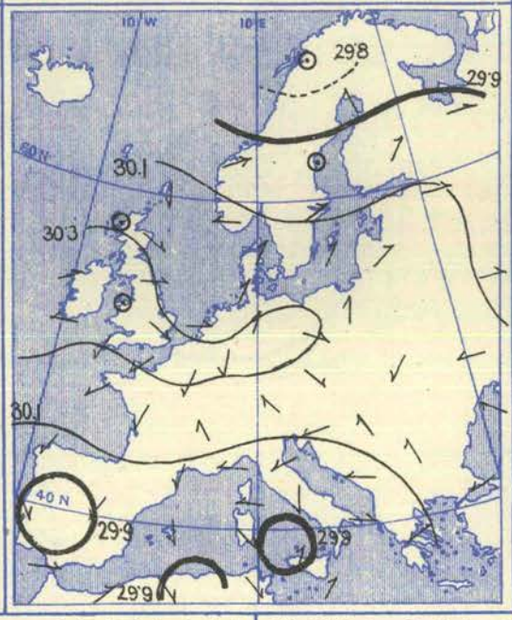
Barometer highest, 30·3 ins. and upwards in two large areas—one covering the greater part of the United Kingdom and the other lying over Denmark, North Germany, the Baltic, and the south of Sweden. Lowest, 29·8 ins. and less in a depression over central Russia; 30·0 ins. and less in three other systems—one lying off the north-west of Norway, another over Portugal, and the third over the Gulf of Genoa. Depression off Norwegian coasts subsequently moving eastwards; no decided change occurring elsewhere.

Thursday, 21st February.

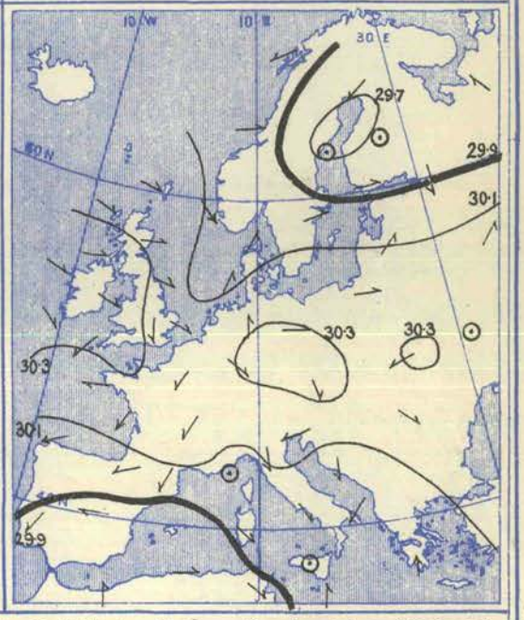
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands, France, and the Netherlands, but foggy or misty at several of the English and Irish stations; snow falling at Spurn Head and also at Belfort. Cloudy or dull in most other parts of Europe, with rain and snow in Spain; snow falling also in Austria, and at Pesaro and Memel. Snow or sleet falling later in the east and south-east of England, and slight rain in many other parts of Great Britain.

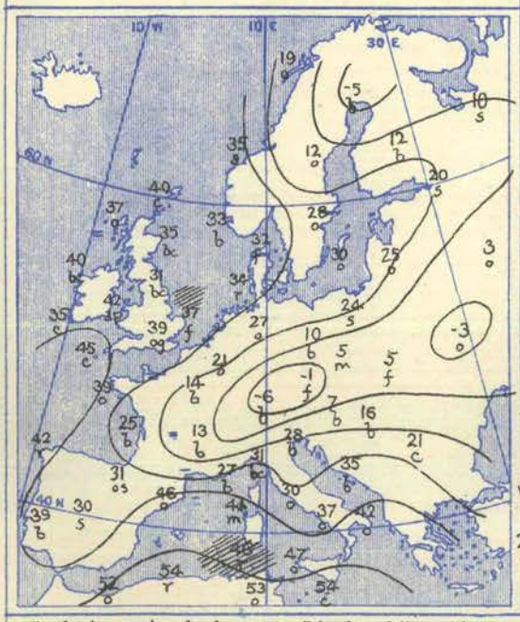
Temperature fallen in our Islands and France; risen in Sweden, Finland, and Denmark; changed irregularly elsewhere. Morning readings highest, 55° at Oran and Algiers; 54° at San Fernando, 53° at Malta, and 49° at La Calle. Lowest, – 1° Fahr. at Munich, + 3° at Breslau and Warsaw, and 6° at Belfort; considerably below the freezing point over northern, eastern, and central Europe generally, and several degrees below it over the central parts of England. Rising during day to 45° or slightly above it at several of our own western and extreme northern stations, but remaining below 40° on our east and south-east coasts. Decided rise taking place later in the western and northern parts of the United Kingdom.

Wind light from the Westward or North-Westward in the north and east of our Islands, and from the South-Westward in Denmark and the south of Sweden, calm in the northern parts of Scandinavia. Easterly or North-Easterly over the south-west of our Islands, France, northern Italy, and the greater part of Spain; variable over Austria, Greece, and the southern parts of Russia and Italy. North-Easterly breezes setting in later in the north of Scandinavia; no important change occurring elsewhere.

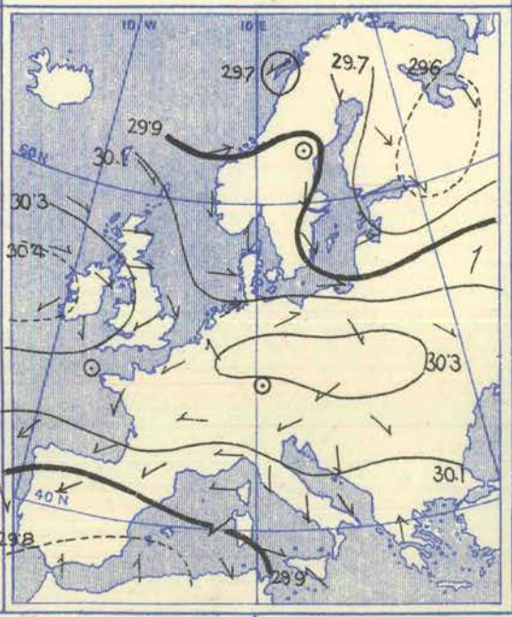
Barometer highest, 30·3 ins. and upwards in an anticyclone covering the greater part of the United Kingdom, and extending eastwards, in the form of a somewhat narrow band, over Belgium and north Germany. Lowest, 29·8 ins. and less in a depression over the north of Scandinavia, shallow secondary disturbance reported over the North Sea; 29·9 ins. and less in three other systems lying respectively over central Spain, Algiers, and a little to the northward of Sicily. Northern depression subsequently moving south-eastwards; disturbances in south gradually dispersing.

Friday, 22nd February.

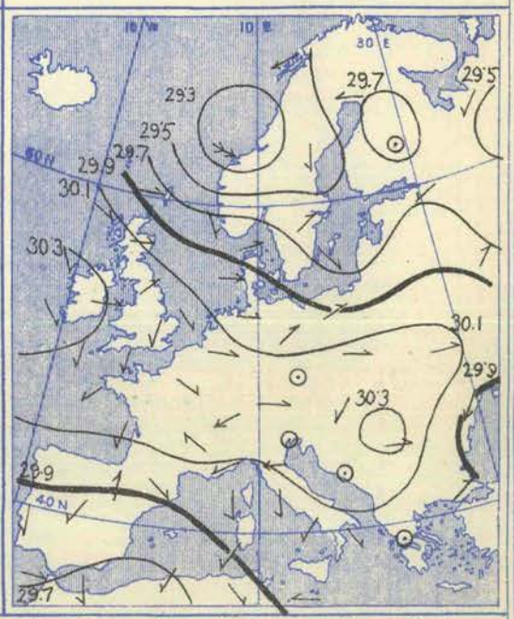
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over our Islands and the northern parts of the Continent generally, with slight rain at some of the English stations; snow falling over northern Russia, and also at Christiansund and Neufahrwasser. Fine on our own north-east and south-west coasts, as well as over the greater part of central Europe, France, and northern Italy; dull over southern Italy and Spain, with rain at Coruna, and snow at Biarritz and Madrid. Showers falling later on our extreme north and north-west coasts, and snow falling in many parts of northern Europe; thunderstorms occurring in Algeria.

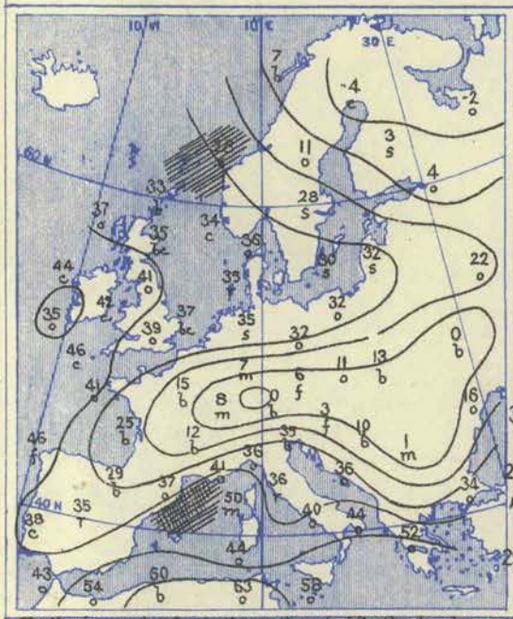
Temperature risen over Ireland, England, the Netherlands, Denmark, and the Baltic; fallen elsewhere. Morning readings highest, 54° at Athens, Malta, Oran, and Algiers, and 53° at La Calle; above 45° over the central and southern parts of the Mediterranean generally. Lowest (1)—6° at Munich, —5° Fahr. at Haparanda, and —3° at Kiev, considerably below the freezing point over northern and central Europe generally, and slightly below it in the north of England. Rising during day to 45° and upwards in most parts of the United Kingdom; exceeding 50° at many of the Mediterranean stations, and reaching 64° at Malta.

Wind light from the Westward or North-Westward over all the more northern and eastern parts of the United Kingdom, and from the South-Westward over Holland, Denmark, and north Germany. North-Westerly over Finland and the south of Sweden. Easterly or North-Easterly over western Germany, France, and Spain; Northerly or North-Westerly in Italy; Southerly in Greece. Subsequently blowing a slight gale from the North-Westward in the north of Scotland, and a strong gale at Christiansund.

Barometer highest, 30·4 ins. and upwards in the west and south of Ireland; 30·2 ins. and upwards in an anticyclone covering the whole of our Islands, and extending eastwards across France and central Europe to the Black Sea. Lowest, 29·6 ins. and less in a depression over northern Russia; 29·7 ins. and less in another disturbance off the north-west of Norway; 29·8 ins. and less in a third system over Algeria and the extreme south of Spain. Depressions over northern Europe both moving eastwards later; new and deeper disturbance appearing off the Norwegian coasts in evening.

Saturday, 23rd February.

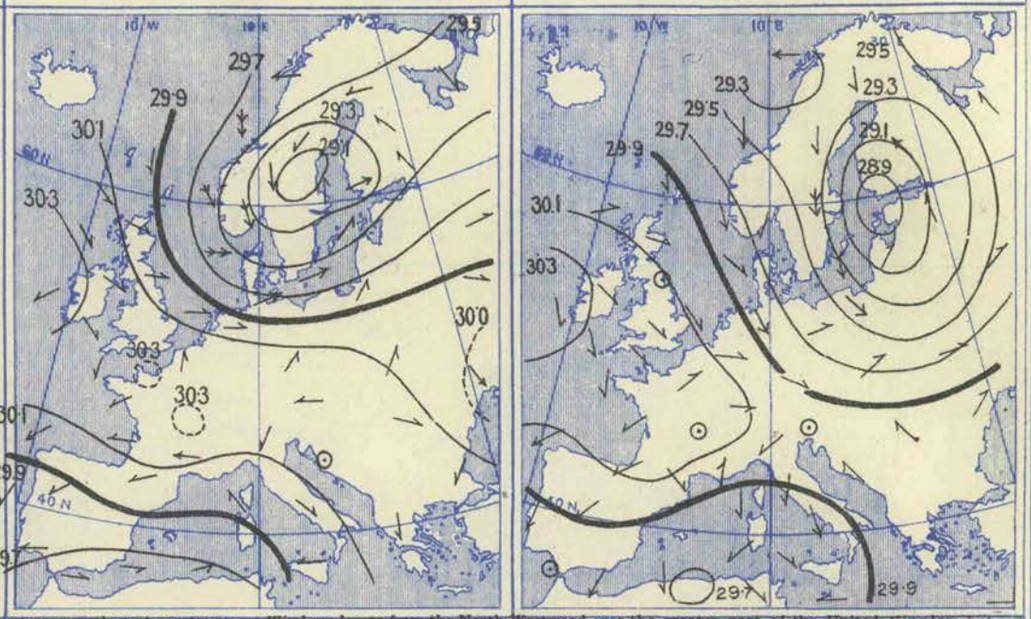
Temperature and Weather. 8 a.m.



Weather in morning fine in the north-east of Scotland and on our extreme south-west coasts, as well as in France, south Germany and Austria; cloudy in all other parts of Europe, with rain at Fanö, and the Helder, as well as at Rome and Madrid; snow falling at many stations in northern Europe. Showers experienced later in the north and east of our Islands, and snow in Germany; heavy snow falling at Helsingfors.

Temperature risen in most countries but fallen over the northern parts of Russia and Scandinavia as well as in Austria and the south of Russia. Morning readings highest, 63° at La Calle, 60° at Algiers, and 58° at Malta; above 50° over the central and southern parts of the Mediterranean generally. Lowest, (1) -4° Fahr. at Haparanda, -2° at Archangel, and +1° at Uleaborg; (2) 0° Zero at Munich, +1° at Hermanstadt, and 3° at Vienna; considerably below the freezing point over northern and central Europe generally, but above it in Denmark and the south of Norway. Rising during day to 45° and upwards over the western and southern parts of the United Kingdom, and touching 50° at some stations in the west of France; exceeding 50° over Spain and the Mediterranean.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind moderate from the North-Westward over the greater part of the United Kingdom but from the Northward in the extreme north of Scotland. Strong to a gale from the Northward or North-Westward on the Norwegian coast and from the Westward in Denmark; South-Westerly over Germany and the Baltic; South-Easterly in Finland; Easterly in the north of Scandinavia; Easterly or North-Easterly over the west and south of France, northern Italy, and the Spanish Peninsula; Northerly or North-Westerly in the south of Italy. Strong Northerly gale setting in later over the south of Sweden and the Baltic.

Barometer highest, 30·3 ins. and upwards in the west and south of Ireland; 30·2 ins. and upwards in a long band stretching thence across the south-west of our Islands, France, and Austria to Asia Minor. Lowest, 29·2 ins. and less in a large and deep depression with its centre a little to the north-westward of Stockholm; 29·7 ins. and less in a shallow disturbance over Algeria. Northern depression subsequently moving eastwards and becoming still deeper; new disturbance appearing off north-west of Norway.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The changes in barometrical pressure observed last week were of a somewhat complex nature. In our Islands the weather was influenced chiefly by an anticyclone which spread over from the Atlantic at the commencement of the week, the only serious interruption to these conditions occurring on the 18th and 19th, when some shallow depressions were developed immediately over England. The prevailing winds were therefore Northerly (North-Westerly to North-Easterly) and the weather cold and changeable, with occasional showers of snow or sleet in most districts.

On the Continent the conditions were at first affected by depressions lying over Germany and central Russia. These soon dispersed, however, and for a time the weather in the northern and central countries was influenced by a second anticyclone which formed in those regions. During the latter part of the week this moved southwards and westwards and became amalgamated with the high pressure system over our Islands, while the conditions in the north were affected by large depressions moving south-eastwards across Scandinavia and northern Russia, the disturbance of the 22nd—23rd being of considerable depth, and occasioning heavy North-Westerly to Northerly gales and snowstorms in most parts of Scandinavia. During nearly the whole week a severe frost prevailed over central Europe, and frequently over the northern parts of the Continent also, but at the close of the time milder weather was spreading over western Europe from the north-westward.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 44.

Stations	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	10·5	- 4·4	16	- 8	BRIGHTON	14·5	- 7·0	20	-10
STRATHPEFFER SPA	9·6	- 7·0	14	-11	WORTHING	17·6	?	25	?
EDINBURGH	9·4	- 6·5	14	- 9	BOGNOR	18·1*	?	25*	?
MORPETH	11·3	?	16	?	WATERGATE (Emsworth)	16·2	?	23	?
NEWCASTLE-ON-TYNE	5·0	?	7	?	WESTBOURNE (Emsworth)	17·8*	- 4·7	25*	- 6
OSWALDKIRK (Yorkshire)	13·2	- 4·8	19	- 6	VENTNOR HOSPITAL	22·7	- 0·2	32	0
LOWESTOFT	13·9	?	20	?	SOUTHPORT	12·7	?	18	?
HOLLESLEY BAY	14·2	?	20	?	RHYL	16·7*	?	24*	?
SHEFFIELD	9·7	?	14	?	COLWYN BAY		?		?
WORKSOP	8·7	- 7·8	12	-11	ABERDOVEY	17·7*	?	25*	?
THURCASTON (Leicestershire)	7·0	-10·5	10	-14	TENBY	22·8		32	
MARGATE	15·8	- 3·7	22	- 6	NEWQUAY	31·4	+ 9·3	44	+13
BROADSTAIRS	18·9	?	27	?	TORQUAY	26·5	+ 5·6	37	+ 9
EASTBOURNE	19·5	- 2·2	27	- 2	GUERNSEY	10·8*	-14·0	15*	-20

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 9.] *Third Series* — WEEK ENDING SATURDAY, MARCH 2ND, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 50.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	24	43·9	33·6	38·8	1 above	5	− 3	31	− 3	43	−18	317	− 4
	1. SCOTLAND, EAST	49	23	43·0	33·2	38·2	0 (average)	3	− 9	32	− 6	22	−55	382	+13
	2. ENGLAND, N.E.	50	29	45·3	36·2	40·8	1 above	9	− 4	23	− 9	40	−42	325	+ 9
	3. ENGLAND, EAST	55	30	47·9	36·4	42·2	2 above	25	+ 9	16	−19	59	−31	370	+19
	4. MIDLAND COUNTIES	54	32	48·1	37·3	42·7	3 above	25	+ 7	13	−21	58	−49	378	+26
	5. ENGLAND, SOUTH	54	34	48·0	39·1	43·6	3 above	23	+ 4	8	−18	77	−47	305	+36
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	30	45·1	37·9	41·5	2 above	9	− 3	17	−11	59	−34	272	+ 7
	7. ENGLAND, N.W.	50	29	45·6	38·6	42·1	2 above	15	+ 2	10	−16	53	−42	293	+37
	8. ENGLAND, S.W.	54	33	48·8	39·4	44·1	2 above	26	+ 6	7	−15	90	−62	247	+44
	9. IRELAND, NORTH	51	33	46·5	38·9	42·7	1 above	18	+ 1	9	−15	96	−34	207	−17
	10. IRELAND, SOUTH	54	33	48·7	38·7	43·7	0 (average)	26	+ 2	9	− 8	128	−65	204	+34
	—CHANNEL ISLANDS	56	37	51·2	42·2	46·7	2 above	33	+ 7	0	− 8	201	−19	114	+29

Rainfall. — Bright Sunshine.

	DISTRICTS. (See p. 50.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	2 more	46	+ 3	7·6	− 2·3	14	− 3	19	− 5	84	− 7	16	− 2
	1. SCOTLAND, EAST	5	12	7 more	35	+ 1	4·6	− 0·8	6	−14	8	−20	90	−28	17	5
	2. ENGLAND, N.E.	6	6	2 more	38	+ 5	3·9	+ 0·1	3	−15	4	−21	75	−30	17	− 5
	3. ENGLAND, EAST	6	6	2 more	34	− 1	3·3	− 0·5	13	−12	18	−15	129	−20	20	− 4
	4. MIDLAND COUNTIES	5	8	3 more	35	+ 2	4·8	+ 0·2	10	−10	13	−14	90	−26	17	− 5
	5. ENGLAND, SOUTH	5	9	4 more	31	− 3	4·1	− 0·9	15	− 9	20	−12	139	− 5	23	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	5 more	37	− 3	7·1	− 3·8	4	−15	5	−21	107	0	20	0
	7. ENGLAND, N.W.	6	10	4 more	39	+ 3	4·5	− 1·3	8	−14	11	−19	111*	−14	18	− 3
	8. ENGLAND, S.W.	6	16	9 more	34	− 5	7·0	− 0·8	21	− 2	29	− 3	151	+13	28	+ 2
	9. IRELAND, NORTH	7	13	7 more	45	+ 3	5·8	− 0·4	8	−11	11	−15	114	− 4	21	− 1
	10. IRELAND, SOUTH	6	16	9 more	36	− 5	6·3	− 1·7	14	− 8	18	−12	127	−12	23	− 2
	— CHANNEL ISLANDS	6	11	5 more	43	+ 3	5·8	− 0·5	25	− 4	34	− 6	156	−29	24	− 5

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was mild and very unsettled. Rain fell almost daily, and the amounts in the west and north were occasionally rather large. Thunder and lightning were experienced at many of the southern and south-western stations on Friday.

Temperature was just equal to the mean in Scotland E. and Ireland S., but was in excess elsewhere ; in the Midland Counties and England S. the excess over the normal was 3°. The highest of the maxima were recorded, as a rule, during the latter part of the week, and ranged from 56° in the Channel Islands and 55° in England E. to 49° in Scotland E. and W. The lowest of the minima were registered on very irregular dates ; they ranged from 23° in Scotland E. and 24° in Scotland N. to 34° in England S. and to 37° in the Channel Islands.

Rainfall exceeded the mean in all districts, the excess being generally large in the western and southern districts and in Scotland E.

Bright Sunshine was less than the normal in all parts of the Kingdom. The percentage of the possible duration ranged from 34 in the Channel Islands and 29 in England S.W. to 13 in the Midland Counties, 11 in England N.W. and Ireland N., 5 in Scotland W., and to 4 in England N.E.

Barometer and Wind.—The distribution of pressure over the United Kingdom during this period was cyclonic, the depressions at first mostly skirted our western and northern coasts, but the later systems were complex and moved eastwards or north-eastwards more directly over the country. The disturbances shown during the earlier half of the week were of no great depth, and the winds were generally moderate or fresh from the South-Westward. Those of Friday and Saturday, however, were more important, and occasioned strong winds or gales from between South-West and South-East in almost all parts of the Kingdom.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 49 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	28	41·4	32·4	36·9	− 1·2	0	36	7	0·70	− 0·02	*	*	*	*
	Stornoway	46	32	44·6	35·4	40·0	+ 0·9	7	25	6	1·90	+ 1·02	13·9	− 5·2	20	− 6
	Wick	45	26	42·6	32·3	37·5	− 1·0	2	35	6	1·18	+ 0·68	*	*	*	*
	Lairg §	50	24	43·9	31·5	37·7	+ 1·6	5	38	6	0·96	+ 0·25	*	*	*	*
	Glencarron §	45	29	43·0	34·7	38·9	+ 1·4	3	27	5	1·58	− 0·06	*	*	*	*
	Fort Augustus §	47	25	45·8	33·7	39·8	+ 1·0	11	32	4	0·93	+ 0·06	12·7	− 0·8	18	0
	Fort William §	48	26	46·0	35·5	40·8	+ 1·3	11	26	6	1·37	− 0·31	7·3	− 9·6	10	−13
1. SCOTLAND, E.	Nairn	49	27	44·7	33·1	38·9	+ 0·3	8	33	4	0·89	+ 0·51	*	*	*	*
	Aberdeen	45	31	42·6	34·6	38·6	− 0·4	2	26	6	1·22	+ 0·67	13·2	− 9·1	18	−13
	Braemar §	42	22	39·3	30·3	34·8	− 0·4	0	50	6	1·81	+ 1·18	*	*	*	*
	Ochtertyre §	49	25	43·6	33·1	38·4	− 0·3	4	33	5	1·35	+ 0·59	*	*	*	*
	Leith §	49	32	45·4	35·6	40·5	+ 0·2	10	25	6	1·14	+ 0·79	*	*	*	*
	Marchmont §	44	30	42·6	32·7	37·7	− 0·3	2	33	7	1·04	+ 0·46	1·8	−18·2	2	−26
2. ENGLAND, N.E	Alnwick Castle	46	31	44·1	35·0	39·6	+ 0·6	6	26	6	0·98	+ 0·43	*	*	*	*
	Durham	46	29	44·3	35·0	39·7	+ 0·9	6	26	5	0·18	− 0·24	2·9	−17·3	4	−24
	Shields	47	34	45·0	36·0	40·5	+ 0·7	8	23	6	0·57	+ 0·19	*	*	*	*
	Scarborough ℳ	49	35	45·5	37·1	41·3	+ 1·3	10	20	6	0·98	+ 0·53	3·2	?	4	?
	Spurn Head	48	35	45·6	37·3	41·5	+ 1·8	10	19	6	0·70	+ 0·37	*	*	*	*
	Fulbeck (Lincolnshire)	50	35	47·3	37·0	42·2	+ 3·0	22	14	6	0·40	+ 0·05	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	52	33	48·1	36·4	42·3	+ 2·5	26	16	6	0·77	+ 0·35	7·1	−14·7	10	−19
	Yarmouth	48	31	45·4	36·1	40·8	+ 1·7	10	23	6	0·48	+ 0·06	*	*	*	*
	Geldeston	52	30	48·3	36·1	42·2	+ 2·2	26	17	6	0·46	+ 0·08	10·4	−12·8	14	−17
	Cambridge	55	32	50·6	35·9	43·3	+ 3·1	35	17	5	0·33	− 0·02	14·3	− 8·2	19	−11
	Felixstowe	51	35	46·4	37·1	41·8	+ 1·8	12	21	5	0·61	?	19·5†	?†	26†	?†
	Rothamsted	52	34	48·6	36·5	42·6	+ 3·0	27	15	5	1·07	+ 0·62	13·5	− 8·1	18	−11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	34	48·0	37·9	43·0	+ 3·0	24	11	6	0·46	+0·08	*	*	*	*
	Loughborough	54	35	49·6	38·4	44·0	+ 3·9	29	10	5	0·69	+ 0·29	*	*	*	*
	Colly Weston (Stamford)	51	34	48·6	36·3	42·5	+ 3·2	27	16	5	0·66	?	*	*	*	*
	Cheadle ℳ	51	33	46·3	35·9	41·1	+ 2·3	12	24	5	0·38	− 0·18	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	50	34	47·2	37·7	42·5	+ 2·6	22	12	4	0·80	+ 0·42	10·0	?	13	?
	Churchstoke ℳ	51	34	47·0	37·2	42·1	+ 2·6	21	13	5	1·33	+ 0·78	11·3	−10·0	15	−14
	Hereford (Belmont) ℳ	51	36	49·3	38·6	44·0	+ 3·3	28	10	5	1·00	+ 0·54	*	*	*	*
	Cirencester	51	32	47·9	35·7	41·8	+ 2·4	17	26	5	0·85	+ 0·30	11·9	−10·1	16	−14
	Oxford	52	35	48·6	38·0	43·3	+ 2·6	26	11	5	0·88	+ 0·48	9·7	−11·3	13	−15
5. ENGLAND, S.	London	54	36	49·6	38·9	44·3	+ 3·1	29	9	4	0·54	+ 0·15	11·9†	− 2·1†	16†	− 2†
	Swarraton (Alresford) ℳ	52	34	48·2	36·9	42·6	+ 3·0	26	14	6	1·40	+ 0·83	*	*	*	*
	Dungeness	49	38	46·4	40·0	43·2	+ 2·5	17	6	5	0·55	+ 0·23				
	Hastings (St. Leonards)	50	38	47·0	39·9	43·5	+ 2·5	19	6	5	0·44	− 0·04	9·9	−15·4	13	− 21
	Southampton	54	36	50·2	39·7	45·0	+ 2·7	31	6	6	1·25	+ 0·72	17·1	− 6·2	23	− 9
	Portland Bill	50	40	47·0	41·4	44·2	+ 1.2	18	2	6	0·93	?	*	*	*	*
	Shaftesbury ℳ	51	35	47·5	37·1	42·3	+ 2·4	23	14	6	1·03	+ 0·46	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	48	30	45·2	36·3	40·8	+ 0·2	9	23	6	1·98	+ 0·46	*	*	*	*
	Glasgow	48	34	44·7	37·5	41·1	+ 1·6	8	18	5	1·44	+ 0·76	1·2	−13·7	2	−18
	Glenlee §	46	35	44·3	37·7	41·0	+ 2·0	6	17	7	1·39	+ 0·32	*	*	*	*
	Douglas (Isle of Man)	49	38	46·0	40·2	43·1	+ 2·1	15	5	7	1·37	+ 0·62	5·8	−17·2	8	−23
7. ENGLAND, N.W.	Newton Reigny	46	29	43·3	35·1	39·2	+ 1·2	4	25	6	0·81	?	1·3	?	2	?
	Stonyhurst	48	36	44·6	38·6	41·6	+ 1·8	7	14	7	1·69	+ 0·89	4·9	−14·1	7	−19
	Blackpool ℳ	50	34	46·0	38·2	42·1	+ 1·9	17	11	6	1·38	+ 0·84	3·7	15·5	5	−21
	Manchester (Prestwich)	50	36	43·6	38·8	42·7	+ 3·0	18	9	7	1·24	+ 0·69	6·7	?	9	?
	Liverpool Obsy. (Bidston)	50	37	46·6	38·9	42·8	+ 2·0	19	9	5	0·54	+ 0·12	4·8	?	6	?
	Llandudno ℳ	49	36	46·2	39·5	42·9	+ 0·4	17	7	7	0·60	+ 0·10	8·4	−12·6	11	−17
	Holyhead	48	39	46·1	41·1	43·6	+ 1·4	15	3	7	0·59	+ 0·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	35	47·6	38·0	42·8	+ 2·6	22	11	7	1·59	+ 0·69	*	*	*	*
	Pembroke	48	40	46·6	42·6	44·6	+ 2·0	18	0	6	2·12	+ 1·52	16·5	− 7·7	22	−10
	Clifton	52	38	48·9	40·0	44·5	+ 2·7	26	6	5	1·15	+ 0·57	*	*	*	*
	Bath	53	34	50·1	38·6	44·4	+ 2·7	31	10	4	0·97	?	15·9	?	21	?
	Arlington (N. Devon)	49	34	46·3	37·7	42·0	+ 1·2	12	12	7	1·77	+ 0·85	*	*	*	*
	Cullompton ℳ	53	33	50·8	38·0	44·4	+ 2·4	34	11	7	1·31	+ 0·66	16·7	− 5·3	23	− 7
	Falmouth	51	39	49·3	41·0	45·2	+ 1·0	27	3	6	2·15	+ 1·29	26·9	+ 1·4	36	+ 2
	Plymouth	54	35	50·6	49·2	44·9	+ 1·7	32	8	7	1·81	+ 1·15	23·4	− 0·6	31	− 2
9. IRELAND, N.	Malin Head	47	37	44·9	40·9	42·9	+ 1·0	11	3	7	1·01	?	*	*	*	*
	Londonderry	48	34	46·2	38·1	42·2	+ 0·5	18	11	7	1·19	+ 0·51	*	*	*	*
	Edenfel (Omagh)	50	34	45·3	38·3	41·8	+ 2·1	9	15	7	1·73	+ 1·14	*	*	*	*
	Blacksod Point	51	38	48·1	40·0	44·1	+ 0·9	23	6	7	1·38	?	*	*	*	*
	Markree Castle	50	33	47·5	38·2	42·9	+ 1·6	22	11	7	1·72	+ 1·04	11·7	− 7·5	16	−10
	Armagh	50	34	47·4	38·1	42·8	+ 1·9	22	11	7	1·33	+ 0·83	3·8	−15·2	5	−21
	Donaghadee	48	34	46·0	38·4	42·2	+ 0·5	17	10	7	0·94	+ 0·43	*	*	*	*
10. IRELAND, S.	Dublin	52	37	48·9	39·7	44·3	+ 1·4	26	6	7	1·23	+ 0·74	9·7	−12·6	13	−17
	Parsonstown	51	33	49·1	37·7	43·4	+ 1·9	28	12	7	1·23	+ 0·73	17·0	− 3·0	23	− 5
	Kilkenny	51	37	48·4	38·9	43·7	+ 1·4	25	9	6	1·33	+ 0·80	*	*	*	*
	Roche's Point	52	39	48·0	40·0	44·0	− 0·2	22	6	5	2·09	+ 1·19	*	*	*	*
	Valencia	51	34	48·9	38·3	43·6	− 1·6	27	10	7	2·65	+ 1·56	14·2	− 9·1	19	−12
	Killarney	54	34	49·2	38·1	43·7	− 0·1	28	11	6	1·45	+ 0·36	*	*	*	*
	Foynes	52	33	48·5	38·1	43·3	− 0·1	25	11	7	1·31	+ 0·63	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	51·4	43·4	47·4	+ 1·6	38	0	6	1·48	+ 0·90	27·5	?	37	?
	Jersey	56	37	51·0	41·0	46·0	+ 2·1	32	3	5	0·75	+ 0·18	23·2	− 5·3	31	− 7

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

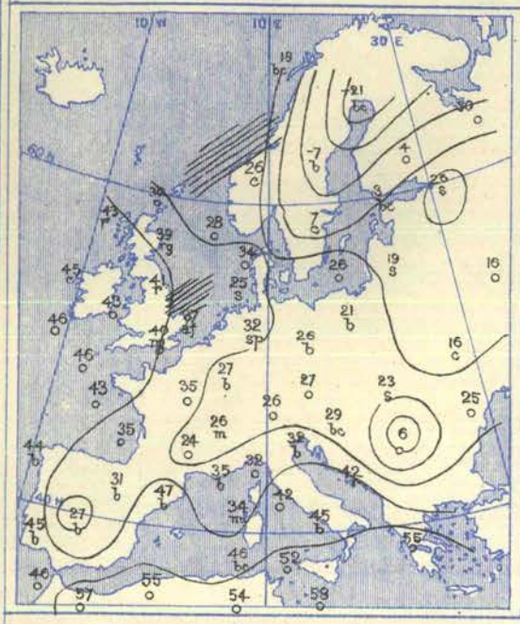
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

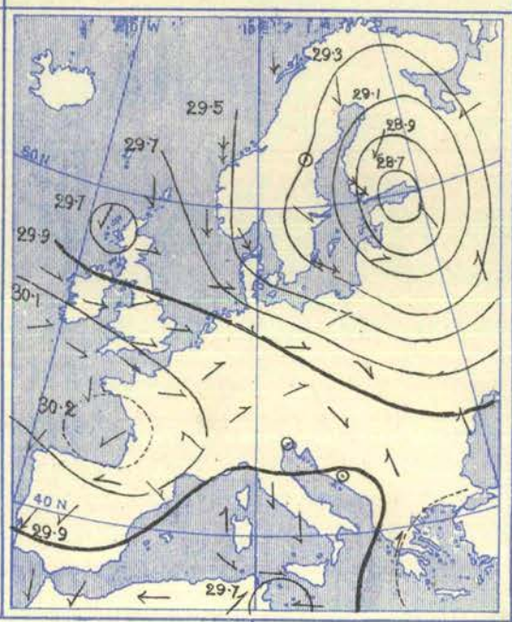
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 24th February.

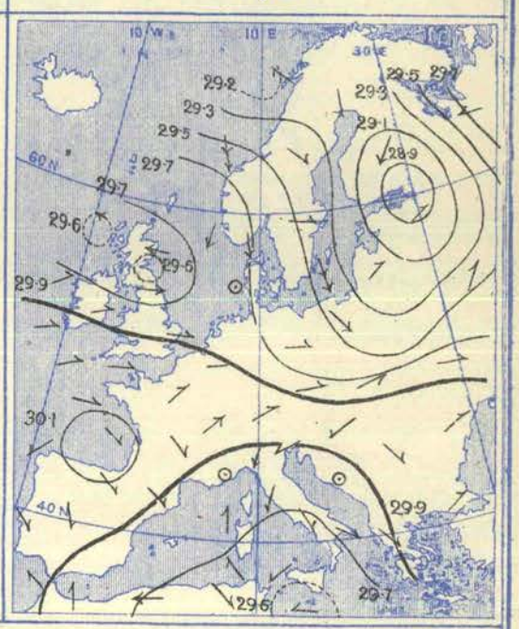
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m



Weather in morning very rough and unsettled over northern Europe, with snow over the Gulf of Finland, the Baltic Provinces, and at Christiansund; rain falling in the northern parts of Great Britain, and north of Ireland, fair over the south of Ireland and England, as well as France, fine and bright over the Mediterranean. Some rain later in the British Islands, except at our southern and south-west stations, and snow over many parts of the Continent.

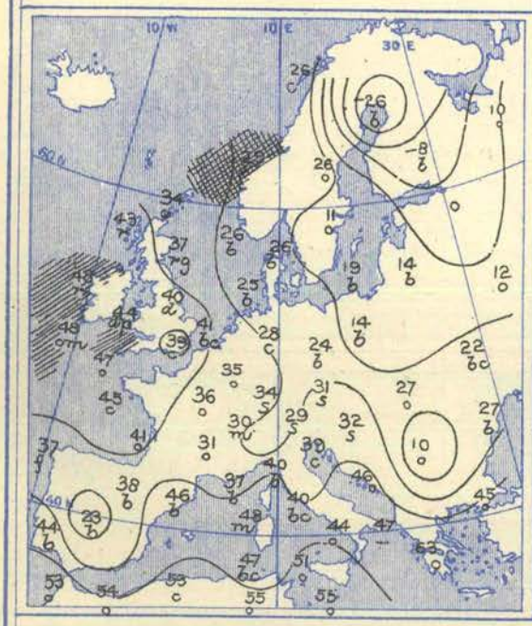
Temperature rising over the British Islands. Highest, 40° to 46° at our western and southern stations, 42° to 49° on the south-west coasts of France, 50° to 57° on the Algerian coast, 58° at Malta. Lowest, −21° at Haparanda, and below zero at Uleaborg and Hernosand, +16° at Moscow, 19° at Riga, and much below the freezing point over the southern half of Russia and central Europe. Rising later to between 45° and 50° in many parts of our Islands, and increasing somewhat over Europe generally; touching 64° at Palermo and Malta, 61° at Funchal (Maderia).

Wind (1) blowing hard from North-West over the Gulf of Finland, and a moderate gale from North-East at Kuopio; North-Westerly and Westerly, moderate over Germany. (2) Westerly, moderate over Ireland and England, but a cyclonic circulation of light winds shown over Scotland. (3) light and anticyclonic over France, moderate, Easterly to Northerly over the Mediterranean. Blowing hard over the Baltic later, and freshening greatly over the northern parts of the British Islands.

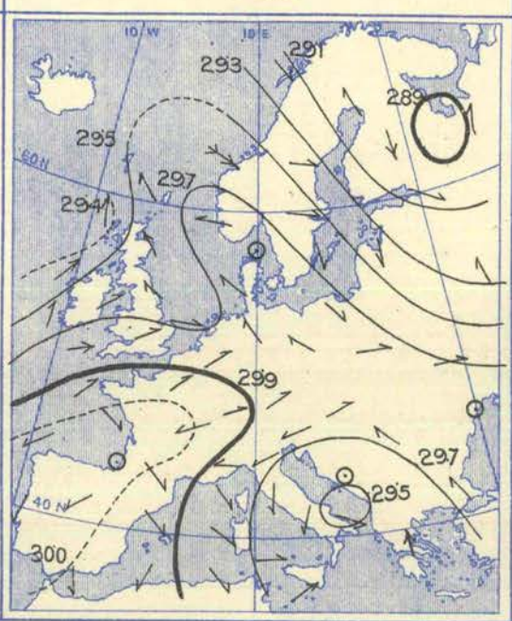
Barometer highest, 30·2 ins. and more to 30·1 ins. over France, the Bay of Biscay, and the south-west of our Islands, and above 30·0 ins. in a ridge over southern Germany. Lowest, (1) 28·7 ins. and less in a depression near St. Petersburg; (2) 29·7 ins. and less in a shallow disturbance near Malta and Tunis, as well as in a small shallow system over the west of Scotland. Latter system becoming duplicated later; that near St. Petersburg moving very little, that near Malta growing deeper.

Monday, 25th February.

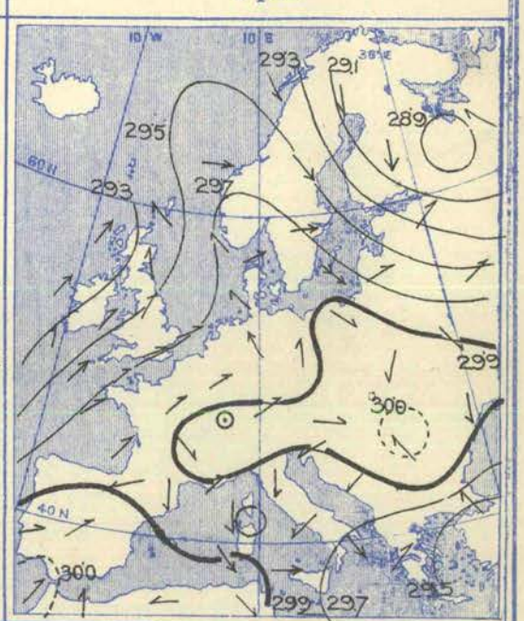
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning greatly changed; still dull over our Islands, with rain at several of the northern, north-western, and some eastern stations; dull and hazy over France, snow in many parts of Germany and Austria. Much finer over Russia and Lapland. Rain later over all the northern and western parts of the United Kingdom, snow at Uleaborg and in some parts of Germany, and rain sporadically in several parts of France and Spain.

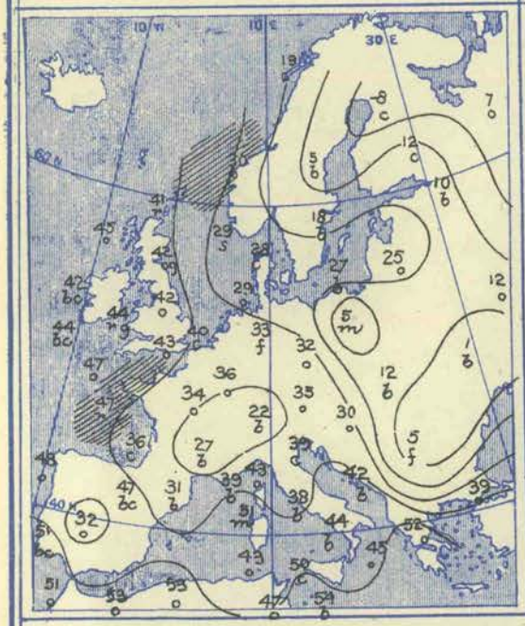
Temperature risen slightly over the British Islands, changed irregularly over central Europe. Morning readings highest, 55° to 50° on the southern shores of the Mediterranean, 48° to 44° on our own south-west coasts, 41° at Dungeness, 40° at Nairn. Lowest, −26° Fahr. at Haparanda, −1° at Helsingfors, +12° at Moscow and Kharkov, 14° at Warsaw and Swinemunde, 10° at Hermanstadt, 24° at Berlin, 30° to 36° over eastern France. Rising later to between 40° and 50° over our Islands generally, and to 52° at Scilly; to 55° at Nice, 59° at Cagliari.

Wind (1), Westerly, moderate, in the south of our Islands, South-Easterly strong to a gale in the north; (2), North-Westerly to Northerly over northern Europe, and blowing hard at Christiansund; (3), North-Easterly to North-Westerly, variable over the Mediterranean; South-Westerly, a moderate gale at Malta; (4), North-Westerly to North-Easterly and Easterly (anticyclonic) over south-western Europe. Southerly winds spreading more and more later over the British Islands and their neighbourhood.

Barometer highest, 30·0 ins. and more over the Spanish Peninsula and south-west of France and exceeding 29·8 ins. in a "ridge," unusual in its direction, and stretching over Holstein and Denmark. Lowest, (1) 28·9 ins to 29·1 ins. and less in a complex series of depressions over northern Europe; (2) 29·5 ins. and less over the southern parts of the Adriatic; and (3) 29·4 ins. and less in a new disturbance off our north-west coasts. Falling in our Islands all day; the northern depression passing north-eastwards

Tuesday, 26th February.

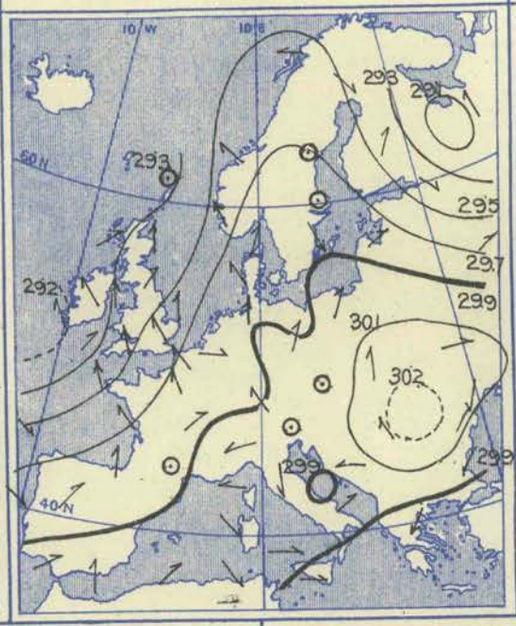
Temperature and Weather. 8 a.m.



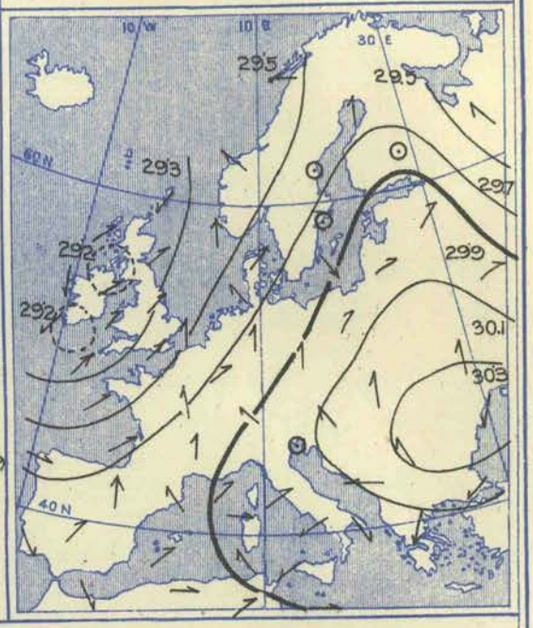
Weather in morning fine over central Europe, fair over northern Europe and France, becoming changeable and showery over the west of the British Islands. Rain later all over the United Kingdom and in the north of France, also in parts of Algeria, but amounts of fall not large.

Temperature not changing much in our Islands, rising rapidly over Finland and a little over England, falling fast in the south of Russia, slightly in Ireland. Morning readings highest—53° at Algiers and above 50° on the southern shores of the Mediterranean, as a whole, 51° at Lisbon, 47° at Scilly, 45° at Stornoway, 43° at Dungeness. Lowest—7° at Archangel, −8° at Uleaborg; + 6° at Kharkov, 12° at Moscow and Lemberg, 5° at Hermanstadt, 7° at Karlstad. Exceeding 45° in many parts of our Islands later, touching 54° at Scilly later, 50° at Parsonstown, 62° at Perpignan, 61° at Malta.

Barometer and Wind. 8 a.m.



6 p.m.

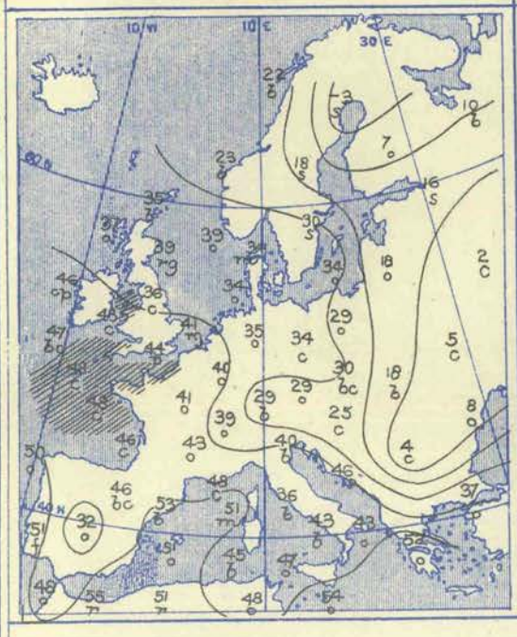


Wind (1) very light and variable (mostly anticyclonic) over southern and south-eastern Europe; (2) Southerly, moderate to strong over Great Britain; South-Easterly in Norway; (3) South-West to North-West over Finland; South-West, light at Moscow; South-Easterly at Archangel. Becoming very variable later over the west and north of our Islands, Southerly over central Europe and the Baltic, but remaining anticyclonic in the south-east.

Barometer highest, 30·2 ins. and more to 30·0 ins. over south-eastern Europe and 29·9 ins. to 29·5 ins. in a well-marked ridge, stretching northwards over Scandinavia. Lowest—29·1 ins. in a depression over the north of Russia, and below 29·2 ins. over the Atlantic, in positions adjacent to our south-west and north-west coasts. Falling later over the United Kingdom, owing to the advance of a very complex depression (2 minima) from the Atlantic.

Wednesday, 27th February.

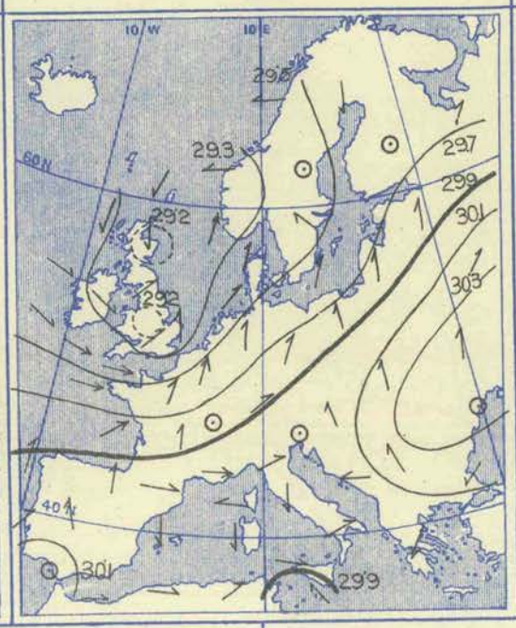
Temperature and Weather. 8 a.m.



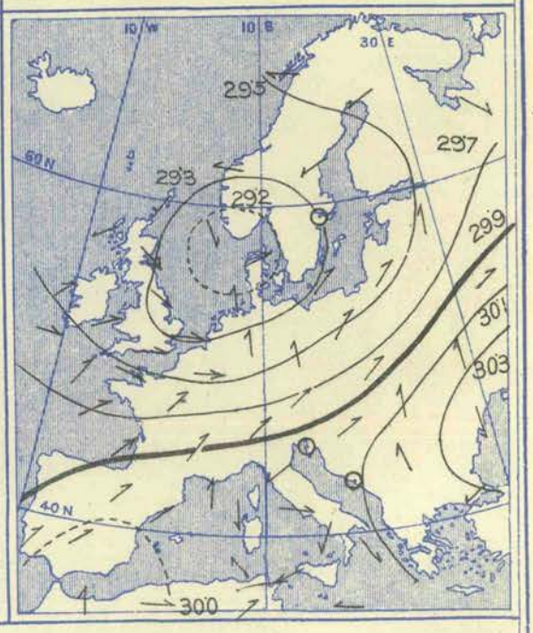
Weather in morning still fair over central, south-eastern and southern Europe, dull, rainy, and unsettled over England and Scotland, improving materially over our western districts. Showers later in most parts of western Europe, and in Sweden, but weather in our Islands improving slowly, and sky clearing over England at night.

Temperature risen greatly over Scandinavia and the southern parts of France, slightly over Ireland, not changed much elsewhere, but falling in Scotland. Morning readings highest—55° at Oran, 54° at Malta, 51° at Lisbon, 48° at Scilly, 46° at Malin Head, 45° at Dungeness. Lowest, (1) −3° at Haparanda, +7° at Helsingfors, 2° at Moscow, 5° at Kieff, −2° at Odessa. Rising later to a little above 50° at our extreme west and south-west stations later, 55° at Brest and Biarritz, 60° at Perpignan, 63° at Palermo, 68° at La Calle.

Barometer and Wind. 8 a.m.



6 p.m.

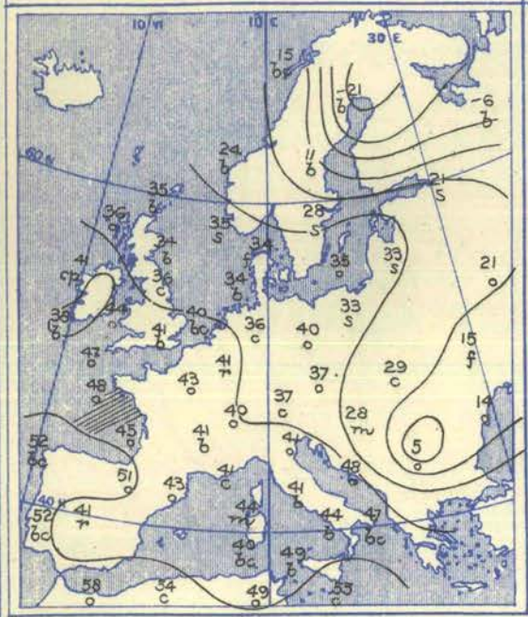


Wind (1) Westerly to South-Westerly in France, Southerly over Germany at the Baltic, Southerly to Easterly in Norway, Northerly in Scotland, North-Westerly on our western coasts; (2) very light and variable over south-eastern and southern Europe and Mediterranean. Falling light over our Islands later, and backing to west over England and Ireland; Easterly in the extreme north of Europe, Westerly and South-Westerly over Germany

Barometer in morning highest, (1) 30·4 ins. and more to 30·2 ins. over the southern half of Russia; (2) 30·1 ins. and more to 30·0 ins. over the southern half of the Spanish Peninsula. Lowest, 29·2 ins. and less to 29·3 ins. in a complex depression over Great Britain and the North Sea. Rising later in the west and south of our Islands and the north of France; the depression referred to above undergoing great modification and moving north-eastward.

Thursday, 28th February.

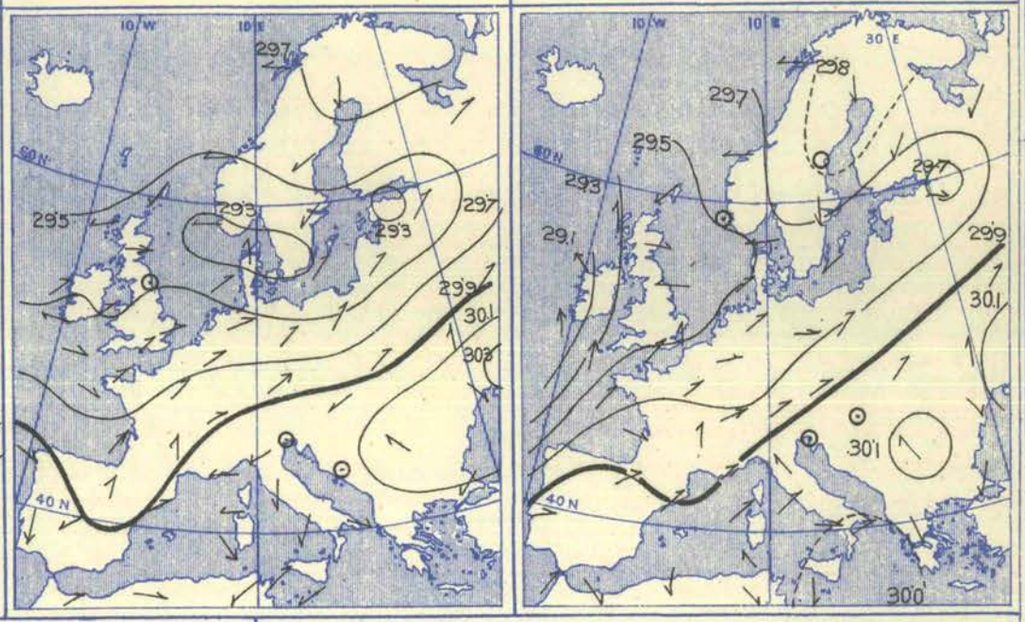
Temperature and Weather. 8 a.m.



Weather in morning clear and fine over the Mediterranean and south-eastern Europe, and temporarily clear in several parts of the northern and north-western countries; but rainy in several parts of the latter region, snow falling in others—more especially over northern Europe. Becoming very rainy and unsettled later over almost the whole of the British Islands and France, and falling into an unsettled condition generally.

Temperature fallen fast over Scandinavia and Scotland, slowly over Ireland and England, risen over central Europe. Morning readings highest, 58° at Oran and Nemours, 55° at Malta, 51° at Biarritz, 47° at Scilly, 44° at Dungeness. Lowest, −21° Fahr. at Haparanda, −6° at Archangel, +9° at Kharkov, 28° at Munich. Rising later to between 54° and 50° in several parts of our Islands, to 57° at Biarritz, 59° at Lisbon, 61° at Cagliari, 63° at San Fernando.

Barometer and Wind. 8 a.m. and 6 p.m.

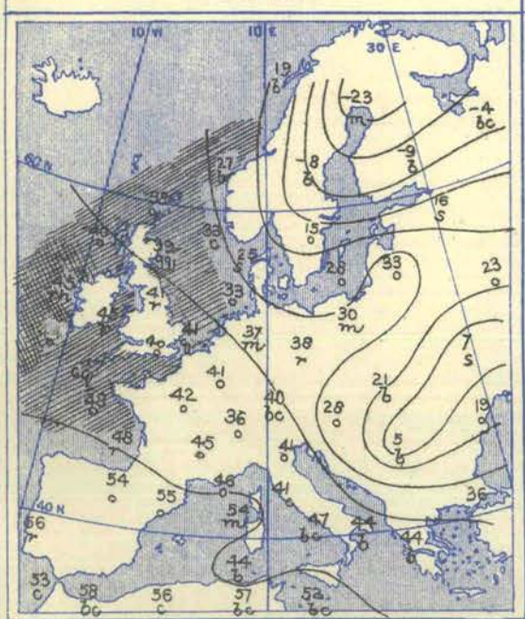


Wind mainly South-Westerly and very variable in force over all the more southern countries of Europe, North-Easterly and Easterly (moderate) in the far north. Varying a great deal in direction over the British Islands—the north-easterly current being prevalent in the north of Scotland, the Southerly and South-Westerly (chiefly) over England and Ireland. Becoming Southerly and South-Easterly in Ireland and Wales later, and increasing greatly in force towards night.

Barometer highest, (1) 30·0 ins. and more over the south-western half of the Spanish Peninsula and the greater part of the Mediterranean; (2) 29·7 ins. and more over the greater part of Lapland. Lowest, (1) 29·3 ins. and less in an elongated depression over Denmark and the south of Scandinavia; (2) below 29·4 ins. in another off the north of Ireland—neither of them of great intensity. A new deep disturbance approaching Ireland later and barometer falling rapidly.

Friday, 1st March.

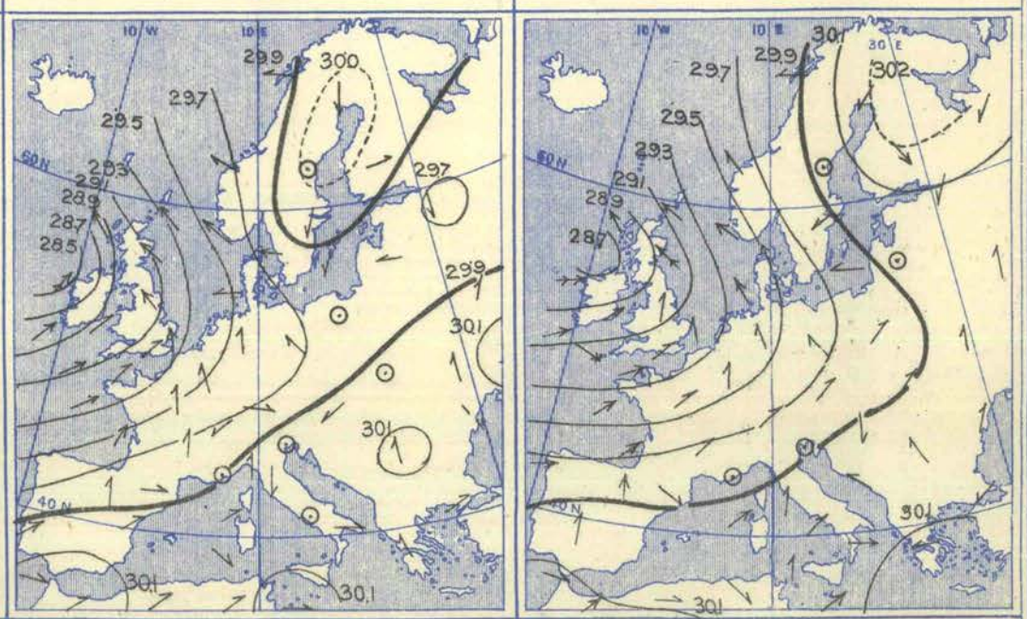
Temperature and Weather. 8 a.m.



Weather in morning cloudy and unsettled over Europe as a whole, with rain over the greater part of Ireland, England and the north of France, as well as at Lisbon; snow falling in the Gulf of Finland and also at Karlstad, Skagen and Kiev. Fine in the northern parts of Scandinavia and Russia, as well as over Greece and southern Italy. Some improvement taking place later over Ireland and England, but rain falling in Scotland and over the western and southern parts of the Continent generally.

Temperature risen in most of the western and southern countries, but fallen elsewhere. Morning readings highest, 58° at Oran, 56° at Bilbao, Lisbon and Algiers, and 55° at Barcelona; above 45° in the south of England. Lowest, −23° Fahr. at Haparanda, −14° at Uleaborg and −9° at Kuopio; considerably below the freezing point over nearly the whole of Russia and Scandinavia. Rising during day considerably, above 45° on all but our extreme northern coasts, and above 50° in the south of England; exceeding 55° in the west and south of France, and exceeding 60° at several of the Spanish stations.

Barometer and Wind. 8 a.m. and 6 p.m.

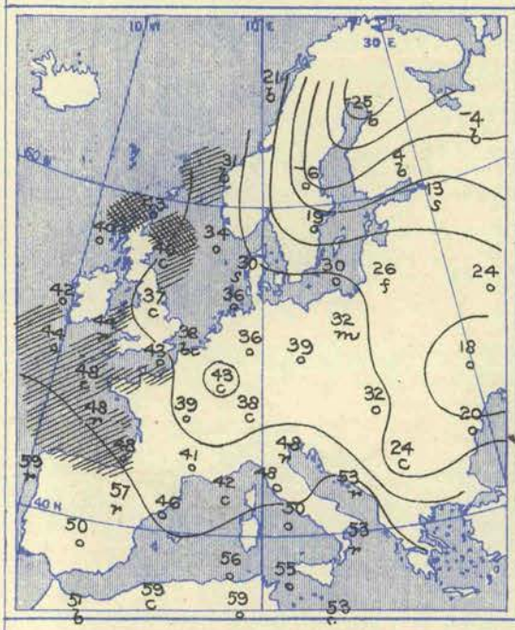


Wind South-Westerly over the western and southern parts of our Islands, the Bay of Biscay and Spain, and strong to a gale in force on our own south-west coasts; strong from the South-Eastward on our north and east coasts, and from the same quarter or from East on the eastern shores of the North Sea. Northerly or North-Easterly over Sweden and northern Russia; variable over Austria, Italy and the south of Russia, subsequently increasing to a gale from the South-Eastward in the north and east of Scotland; no important change occurring elsewhere.

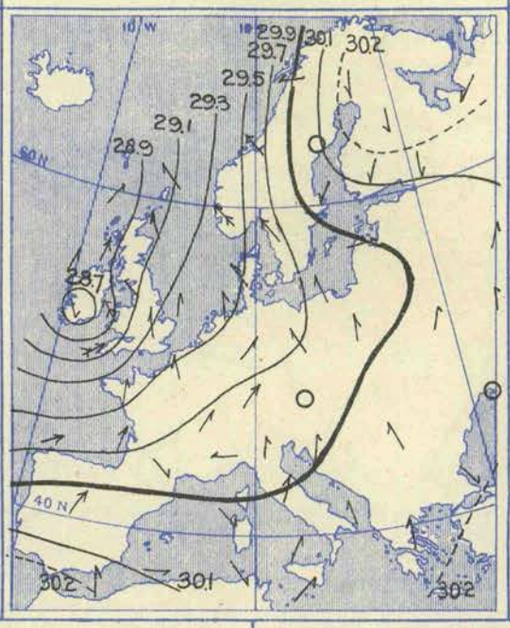
Barometer highest, (1) 30·2 ins. and upwards in the south of Russia; (2) 30·1 ins. and upwards over the south of Spain and also over the central parts of the Mediterranean; (3) 30·0 ins and upwards over the northern parts of Sweden. Lowest, 28·5 ins. and less in a deep depression with its centre off the west of Ireland; gradients steep over the whole of our Islands, and the neighbouring parts of the Continent. Depression subsequently moving slowly northwards; barometer rising again on our western and southern coasts.

Saturday, 2nd March.

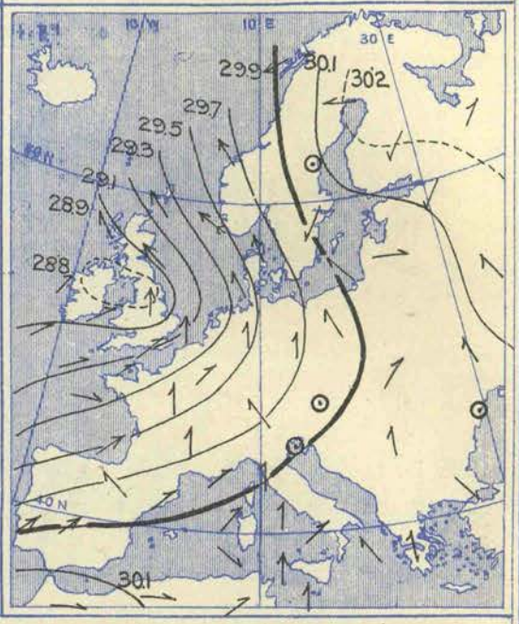
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and rather foggy in the extreme north of Europe, dull over the south-eastern, central, and southern countries. Very rainy, squally, and unsettled in the west, the fall in some parts of France being large. Further rain later in all the regions referred to, and some at Karlstad; hail at Pembroke; and some lightning seen at Blacksod Point at night.

Temperature risen over northern and central Europe, changing little and irregularly elsewhere. Morning readings highest, 59° at Algiers, San Fernando, and Corunna; 57° at Biarritz; 48° at Scilly; 37° at Shields. Lowest, -25° at Haparanda; + 4° over Finland; 13° at St. Petersburg; 18° at Kieff; 17° at Karlstad. Rising later to between 54° and 50° in various parts of England to 57° at Biarritz, 65° at Perpignan, but falling again a good deal at night.

Wind mainly South-Westerly over the southern countries, South-Easterly over central Europe, Northerly to Easterly and South-Easterly in the north. Very variable in our Islands, mainly South-East to South, but South-West (a gale) at Scilly, and North-Westerly (a gale) at Roches Point. Gales later in many parts of our Islands, but not general, and a heavy gale from East-South-East at Skudesnaes.

Barometer in morning highest, 30·2 ins. and more to 30·0 ins. over northern Europe, and also over the southern parts of Spain. Lowest, below 29·0 ins. on all our west and north-west coasts, and as low as 28·67 ins. at Roches Point, in a deep minimum there. Gradients steep over the British Islands, especially over the west and south-west of Great Britain and the neighbourhood. Secondary disturbances (very shallow) in the east. The western depression travelling north-north-eastwards later, and undergoing great modification; barometer rising on our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of this week the barometer was highest (30·2 ins. and more) in an anticyclone covering the Bay of Biscay, the west of France, and the south-west of our Islands; lowest (28·7 ins. and less) in a well-marked depression over the Gulf of Bothnia. There was also a shallow depression over Scotland, which became more complex later and finally filled up. A great change in the general distribution of pressure was, however, in progress. The Russian depression moved north-eastwards, and at all our western stations the barometer fell. By Tuesday the highest pressures were found over Russia, the lowest in the north of Russia, but a complex depression (having two distinct minima) was advancing to our Islands from the Atlantic. Milder weather than that of the previous week was prevalent, and Southerly winds had replaced those from the Northward which were then dominant.

On Wednesday this complex system had passed away to the north-eastward, and Thursday found us with three well-defined systems of high barometer—one over south-eastern Europe, another in the far north, and a third to the south-westward of Portugal. New depressions of considerable intensity reached our Islands from the Atlantic, and the remainder of the week was marked by very variable winds, changeable weather and occasional rain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 50.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	18·1	- 0·2	25	- 1	BRIGHTON	16·6	- 8·6	22	-10
STRATHPEFFER SPA	16·6	- 1·0	23	- 2	WORTHING	19·2	?	26	?
EDINBURGH	2·9	-14·6	4	-20	BOGNOR	23·6*	?	32*	?
MORPETH	1·8	?	2	?	WATERGATE (Emsworth)	9·0	?	12	?
NEWCASTLE-ON-TYNE	1·0	?	1	?	WESTBOURNE (Emsworth)	16·1*	- 9·1	22*	-12
OSWALDKIRK (Yorkshire)	7·0	-13·0	10	-17	VENTNOR HOSPITAL	17·0	- 8·7	23	-12
LOWESTOFT	9·3	?	13	?	SOUTHPORT	7·1	?	10	?
HOLLESLEY BAY	17·1	?	23	?	RHYL	*	?	*	?
SHEFFIELD	7·3	?	10	?	COLWYN BAY	12·4	?	17	?
WORKSOP	5·5	-13·0	7	-18	ABERDOVEY	22·6*	?	31*	?
THURCASTON (Leicestershire)	11·1	- 7·6	15	-10	TENBY				
MARGATE	11·2	-11·1	15	-15	NEWQUAY	22·0	- 3·0	29	- 4
BROADSTAIRS	11·0	?	15	?	TORQUAY	28·5	+ 4·4	38	+ 6
EASTBOURNE	13·1	-11·9	18	-13	GUERNSEY	24·6*	- 2·9	33*	- 4

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 10.] *Third Series* — WEEK ENDING SATURDAY, MARCH 9TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 56.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	30	46·0	35·4	40·6	2 above	11	+ 2	25	- 9	55*	-15	342	-13
	1. SCOTLAND, EAST	54	28	46·0	34·6	40·2	2 above	11	- 2	28	- 8	33	-57	410	+ 5
	2. ENGLAND, N.E.	55	31	47·8	36·6	42·0	2 above	16	+ 1	15	-16	56	-41	340	- 7
	3. ENGLAND, EAST	56	31	47·0	36·0	41·3	1 above	14	- 5	23	-11	73	-36	393	+ 8
	4. MIDLAND COUNTIES	55	31	47·4	36·2	41·6	1 above	15	- 5	23	-11	73	-54	401	+15
	5. ENGLAND, SOUTH	56	34	47·8	38·2	42·8	2 above	22	+ 1	11	-15	99	-46	316	+21
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	32	47·1	36·3	41·5	1 above	14	+ 1	22	- 5	73	-33	294	+ 2
	7. ENGLAND, N.W.	52	30	46·1	36·8	41·4	1 above	11	- 4	21	- 5	64	-46	314	+32
	8. ENGLAND, S.W.	54	33	48·8	39·4	44·0	2 above	25	+ 4	7	-15	115	-58	254	+29
	9. IRELAND, NORTH	54	31	47·3	35·8	41·4	0 (average)	15	- 3	24	0	111	-37	231	-17
	10. IRELAND, SOUTH	55	30	48·6	37·3	42·8	1 below	25	0	13	- 4	153	-65	217	+30
	—CHANNEL ISLANDS	53	39	49·8	41·9	45·7	1 above	26	- 1	0	- 8	227	-20	114	+21

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 56.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	20	11 more	52	+ 5	9·6	- 1·8	13	- 6	17	- 8	97	-13	17	- 2
	1. SCOTLAND, EAST	4	8	2 more	39	+ 2	5·4	- 0·5	23	+ 1	30	+ 2	113	-26	19	- 4
	2. ENGLAND, N.E.	5	4	1 less	43	+ 7	4·3	+ 0·1	23	+ 1	30	+ 1	98	-29	18	- 5
	3. ENGLAND, EAST	6	7	3 more	40	+ 1	4·0	- 0·2	11	-14	14	-17	140	-34	20	- 5
	4. MIDLAND COUNTIES	6	8	3 more	41	+ 5	5·6	+ 0·5	18	- 4	23	- 6	108	-31	18	- 5
	5. ENGLAND, SOUTH	6	7	2 more	37	0	4·8	- 0·7	18	- 8	23	-10	157	-13	23	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	21	12 more	43	- 1	9·2	- 2·6	21	0	27	0	128	- 1	21	0
	7. ENGLAND, N.W.	6	10	4 more	45	+ 6	5·5	- 0·9	22	- 2	28	- 2	133	-16	19	- 3
	8. ENGLAND, S.W.	5	10	3 more	39	- 3	8·0	- 0·5	30	+ 4	38	+ 5	181	+17	29	+ 2
	9. IRELAND, NORTH	6	11	5 more	51	+ 5	6·9	+ 0·1	24	+ 3	31	+ 4	138	- 1	22	0
	10. IRELAND, SOUTH	5	13	6 more	41	- 4	7·6	- 1·1	27	+ 3	35	+ 3	154	-10	24	- 2
	— CHANNEL ISLANDS	6	7	2 more	49	+ 4	6·5	- 0·3	24	-10	31	-12	180	-39	24	- 6

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was again very unsettled. Rain falling daily in all parts of the Kingdom until Friday or Saturday, when the conditions gradually improved.

Temperature continued a little above the mean in the majority of districts, but only just equalled it in Ireland N., and was slightly below it in Ireland S. The highest of the maxima were registered, as a rule, either on the 4th or 5th, but on the 9th at some of the Scotch stations; they varied from 56° in England S. and E. to 52° in Scotland W. and England N.W. The lowest of the minima were recorded on rather irregular dates, and ranged from 28° in Scotland E. and 30° or 31° in several other districts to 34° in England S. and 39° in the Channel Islands.

Rainfall was much more than the mean over Ireland and the W. and N. of Scotland, and considerably so in several other districts; in Scotland E. and England S., however, the fall was not much greater than the normal, while in England N.E. it was a little below it.

Bright Sunshine was rather in excess of the mean value in some of the western and northern districts, but was much below it over southern, central and eastern England. The percentage of the possible duration ranged from 38° in England S.W. and 35° in Ireland S. to 17° in Scotland N. and to 14 in England E.

Barometer and Wind.—The distribution of pressure over the United Kingdom was again cyclonic at the commencement of the week, a rather deep depression lay off the north of Scotland and some small secondary systems over England and the North Sea; the winds were moderate to fresh from North-West in Ireland and the west of Scotland, and from West and South-West in England and the east of Scotland. By the 4th the main depression had partially dispersed and the wind had become South-Westerly and Westerly on all our coasts. By the 5th another, and deeper, depression had appeared off the north of Scotland causing South-Westerly and Westerly gales or strong winds in all parts of the Kingdom. This depression, after a trough of secondaries had moved eastwards to the North Sea, eventually moved southwards directly over Great Britain to the west of France. The gales and strong winds continued during its passage, but subsequently altered in direction to North-West and finally to North. At the end of the week this system had entirely disappeared, and an anticyclone had spread over the greater part of the Kingdom from the Atlantic. The winds in the south had consequently shifted to the North-Eastward and those in the north to the Westward.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 55 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	34	44·3	37·1	40·6	+ 2·5	6	18	7	0·95	+ 0·27	*	*	*	*
	Stornoway	48	34	44·7	35·1	39·8	+ 0·7	8	25	7	1·85	+ 1·02	16·1	- 4·8	21	- 6
	Wick	53	34	46·3	35·4	40·7	+ 2·1	12	25	5	0·25	- 0·24	*	*	*	*
	Lairg ℘	55	30	47·7	33·6	40·4	+ 4·0	16	32	5	1·18	+ 0·49	*	*	*	*
	Glencarron ℘	50	33	45·3	35·1	40·1	+ 2·5	9	26	7	4·17	+ 2·57	*	*	*	*
	Fort Augustus ℘	50	33	46·4	34·9	40·5	+ 1·6	12	27	5	2·43	+ 1·65	9·9	- 5·1	13	- 7
	Fort William ℘	52	34	47·3	36·9	42·0	+ 2·3	15	14	7	3·42	+ 1·88	10·8	- 8·0	14	-10
1. SCOTLAND, E.	Nairn	54	33	47·1	35·6	41·2	+ 2·3	14	25	4	0·83	+ 0·45	*	*	*	*
	Aberdeen	54	31	48·0	35·4	41·5	+ 2·1	17	26	4	0·09	- 0·44	30·8	+ 6·3	41	+ 9
	Braemar ℘	45	21	41·2	32·0	36·5	+ 1·0	0	39	4	1·45	+ 0·80	*	*	*	*
	Ochtertyre ℘	51	31	47·7	34·7	41·0	+ 2·0	16	28	4	1·52	+ 0·74	*	*	*	*
	Leith	51	32	48·1	35·4	41·6	+ 1·0	17	26	4	0·44	+ 0·09	*	*	*	*
	Marchmont ℘	49	28	44·1	34·3	39·1	+ 0·8	6	28	5	0·39	- 0·19	21·3	- 0·4	28	0
2. ENGLAND, N.E	Alnwick Castle	51	32	47·3	35·1	41·0	+ 1·7	15	26	4	0·50	- 0·04	*	*	*	*
	Durham	52	33	47·7	35·8	41·6	+ 2·5	16	25	4	0·29	- 0·11	25·8	+ 3·3	34	+ 4
	Shields	52	34	48·6	36·0	42·1	+ 2·2	26	17	4	0·28	- 0·10	*	*	*	*
	Scarborough ℳ	55	36	48·4	38·0	43·1	+ 2·8	25	11	5	0·28	- 0·17	18·5	?	24	?
	Spurn Head	52	35	47·9	38·9	43·3	+ 3·4	22	9	6	0·30	- 0·03	*	*	*	*
	Fulbeck (Lincolnshire)	53	31	47·1	35·5	41·1	+ 1·4	14	25	5	0·50	+ 0·18	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	56	31	47·3	35·5	41·2	+ 0·9	15	25	5	0·67	+ 0·25	11·2	-12·6	15	-15
	Yarmouth	52	33	45·4	36·0	40·6	+ 1·0	10	23	6	0·66	+ 0·23	*	*	*	*
	Geldeston	55	33	46·6	36·7	41·5	+ 1·0	13	21	6	0·75	+ 0·38	7·9	-17·9	10	-23
	Cambridge	56	31	48·7	35·0	41·7	+ 1·1	19	28	5	0·81	+ 0·48	10·8	-14·2	14	-18
	Felixstowe	52	36	46·6	37·6	42·0	+ 1·6	13	12	6	0·45	?	11·4†	?†	15†	?†
	Rothamsted	53	33	47·1	35·1	40·9	+ 1·0	14	26	6	0·91	+ 0·45	15·5	- 8·5	20	-11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	33	48·6	36·4	42·3	+ 2·0	26	16	5	0·29	- 0·09	*	*	*	*
	Loughborough	55	34	48·4	36·7	42·4	+ 1·8	25	15	6	0·82	+ 0·40	*	*	*	*
	Colly Weston (Stamford)	53	32	47·3	35·1	41·0	+ 1·2	15	26	6	0·58	?	*	*	*	*
	Cheadle ℳ	50	32	46·0	35·2	40·4	+ 1·2	11	25	6	1·08	+ 0·55	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	53	32	46·7	35·4	40·9	+ 0·7	13	25	5	0·60	+ 0·25	15·6	?	20	?
	Churchstoke ℳ	51	31	46·0	36·0	40·9	+ 1·2	11	23	6	1·18	+ 0·69	18·4	- 5·5	24	- 7
	Hereford (Belmont) ℳ	53	34	48·0	37·6	42·7	+ 1·6	23	12	6	0·75	+ 0·35	*	*	*	*
	Cirencester	52	33	47·1	36·0	41·4	+ 1·8	14	24	5	1·18	+ 0·68	20·1	- 3·9	26	- 5
	Oxford	54	33	48·3	37·0	42·5	+ 1·5	25	14	5	0·48	+ 0·10	18·7	- 5·5	24	- 6
5. ENGLAND, S.	London	55	35	49·1	37·4	43·1	+ 1·5	27	13	6	0·74	+ 0·39	11·3†	- 4·7†	14†	- 7†
	Swarraton (Alresford) ℳ	53	34	47·5	37·0	42·1	+ 2·3	22	14	6	0·47	- 0·05	*	*	*	*
	Dungeness	51	37	47·3	40·1	43·6	+ 2·7	19	5	5	0·46	+ 0·15	?	?	?	?
	Hastings (St. Leonards)	50	35	46·7	37·4	41·9	+ 0·5	13	18	5	0·82	+ 0·35	13·2	-14·8	17	- 19
	Southampton	56	36	50·4	38·3	44·2	+ 1·6	31	10	6	0·71	+ 0·21	25·9	- 0·1	33	- 1
	Portland Bill	50	36	47·1	40·3	43·6	+ 0·3	18	5	6	0·52	?	*	*	*	*
	Shaftesbury ℳ	52	34	46·4	36·7	41·4	+ 1·4	12	21	5	0·97	+ 0·45	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	52	34	48·0	36·4	42·0	+ 1·2	17	16	7	4·95	+ 3·48	*	*	*	*
	Glasgow	49	34	45·7	36·2	40·8	+ 1·2	10	22	5	1·12	+ 0·50	12·7	- 4·1	17	- 5
	Glenlee ℘	50	32	47·4	35·4	41·2	+ 1·9	15	18	6	1·43	+ 0·43	*	*	*	*
	Douglas (Isle of Man)	49	32	47·2	37·0	42·0	+ 0·8	15	14	6	0·92	+ 0·22	28·2	+ 2·2	37	+ 3
7. ENGLAND, N.W.	Newton Reigny	49	30	46·0	33·6	39·6	+ 1·1	11	31	5	1·23	?	29·1	?	38	?
	Stonyhurst	49	34	44·8	37·0	40·8	+ 1·0	8	19	5	1·70	+ 0·90	19·4	- 1·6	25	- 2
	Blackpool ℳ	49	33	46·3	36·5	41·3	+ 0·7	12	21	6	0·85	+ 0·35	24·1	+ 3·1	31	+ 4
	Manchester (Prestwich)	50	34	46·8	36·9	41·7	+ 1·8	13	20	7	1·68	+ 1·13	15·0	?	20	?
	Liverpool Obsy. (Bidston)	52	35	46·3	37·7	41·9	+ 0·8	12	17	5	0·39	- 0·01	21·4	?	28	?
	Chester (Hawarden Bridge)	52	31	46·3	34·3	40·1	- 1·7	12	29	5	0·45	?	*	*	*	*
	Llandudno ℳ	51	36	46·6	39·2	42·8	+ 0·2	17	8	6	0·99	+ 0·51	15·8	- 7·0	21	- 8
	Holyhead	48	38	46·0	39·3	42·6	+ 0·2	16	8	5	0·42	- 0·10	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	33	48·7	37·4	42·9	+ 2·2	26	13	6	1·51	+ 0·66	*	*	*	*
	Pembroke	49	36	46·9	40·7	43·7	+ 1·1	17	4	5	0·57	0·00	34·6	+ 7·8	44	+ 9
	Clifton	51	35	47·5	38·9	43·1	+ 1·1	21	9	6	1·62	+ 1·08	*	*	*	*
	Bath	54	34	49·3	38·4	43·7	+ 1·9	27	10	5	0·76	?				
	Arlington (N. Devon)												*	*	*	*
	Cullompton ℳ	54	36	49·7	39·6	44·5	+ 1·9	28	7	5	1·10	+ 0·52	27·1	+ 2·4	35	+ 3
	Falmouth	52	36	48·6	40·1	44·2	0·0	23	5	5	0·87	+ 0·07	33·9	+ 5·7	43	+ 7
	Plymouth	53	38	51·2	40·4	45·6	+ 2·2	32	4	5	0·57	- 0·03	25·3	- 1·7	32	- 3
9. IRELAND, N.	Malin Head	49	36	45·7	37·9	41·7	- 0·2	10	16	6	0·83	?	*	*	*	*
	Londonderry	54	34	48·9	35·9	42·2	+ 0·4	27	17	5	1·22	+ 0·55	*	*	*	*
	Edenfel (Omagh)	51	31	46·3	34·0	40·0	+ 0·2	12	30	6	1·36	+ 0·78	*	*	*	*
	Blacksod Point	52	35	47·9	37·3	42·4	- 0·9	23	13	6	1·32	?	*	*	*	*
	Markree Castle	51	32	48·5	35·4	41·8	+ 0·3	18	27	6	1·38	+ 0·73	23·8	+ 2·6	31	+ 4
	Armagh	50	34	47·4	35·1	41·1	+ 0·3	15	27	6	0·99	+ 0·51	24·0	+ 3·2	31	+ 4
	Donaghadee	48	33	46·4	35·3	40·7	- 1·2	12	25	5	0·70	+ 0·22	*	*	*	*
10. IRELAND, S.	Dublin	53	34	49·1	37·2	43·0	+ 0·1	27	13	5	0·72	+ 0·25	33·9	+ 9·2	44	+12
	Parsonstown	52	30	47·1	35·0	40·9	- 0·7	14	27	6	1·35	+ 0·85	25·6	+ 3·4	33	+ 4
	Kilkenny	53	32	47·0	35·7	41·2	- 1·3	14	25	5	0·86	+ 0·36	*	*	*	*
	Roche's Point	52	38	49·1	39·4	44·1	- 0·2	26	7	4	0·70	- 0·13	*	*	*	*
	Valencia	53	35	49·4	39·9	44·5	- 0·8	26	6	6	1·24	+ 0·25	22·0	- 3·5	28	- 6
	Killarney	51	31	? 49·4	36·7	? 42·9	? - 1·0	? 28	15	7	2·92	+ 1·93	*	*	*	*
	Foynes	55	33	49·3	37·0	43·0	- 0·4	28	14	5	1·12	+ 0·49	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	49·7	42·3	45·9	+ 0·1	27	0	6	0·60	+ 0·05	29·9	?	38	?
	Jersey	53	39	49·9	41·4	45·5	+ 1·3	27	2	6	0·86	+ 0·32	22·4	- 8·6	29	-11

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℘ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

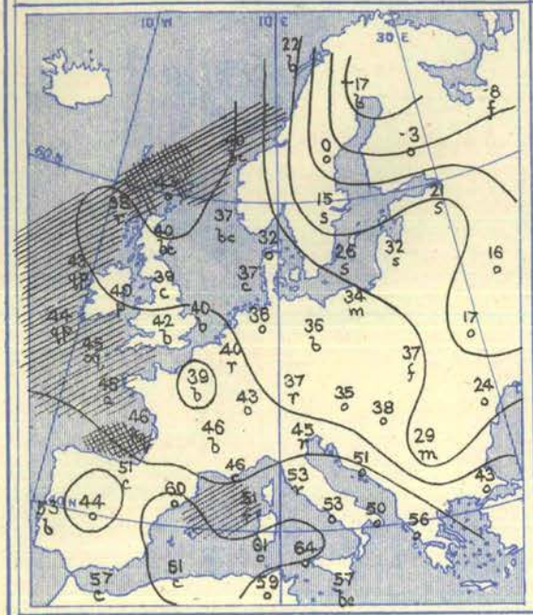
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

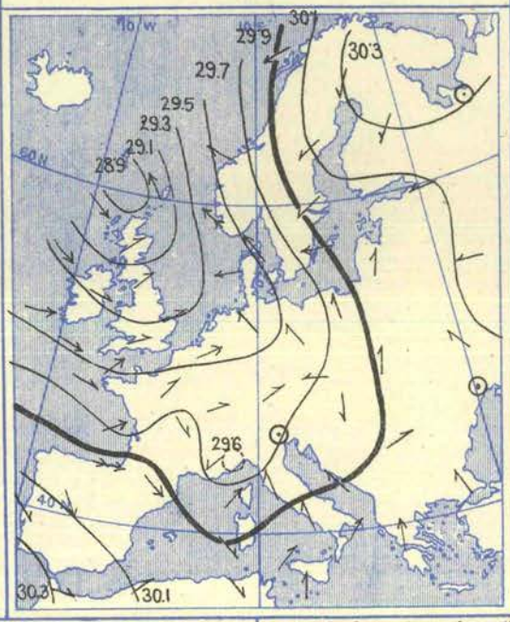
NOTE.—It will be seen that Chester (Hawarden Bridge) has been added to the list of stations in England N.W.

Sunday, 3rd March.

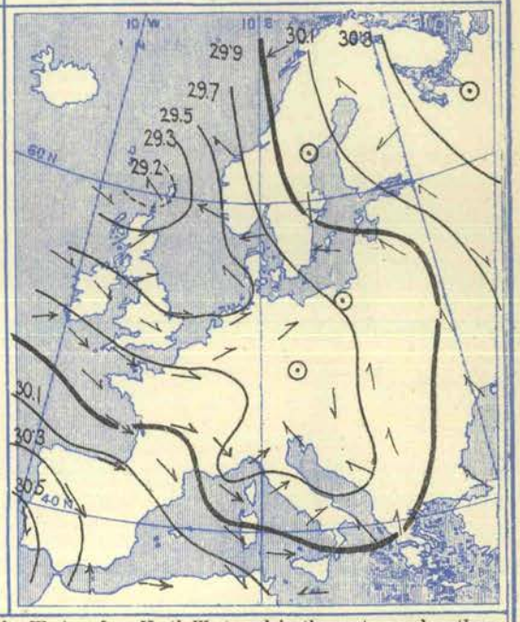
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the eastern parts of the United Kingdom but cloudy and showery in the west. Cloudy or dull over the greater part of the Continent, with rain over Belgium and northern Italy, and at some stations in the west and south of France; snow falling in the south of Scandinavia and also at Riga and St. Petersburg. Fine over central France as well as in the west of Norway. Showers falling during day in all but the north-eastern parts of the United Kingdom, and thunderstorm occurring at Yarmouth; rain occurring also in Austria and Italy.

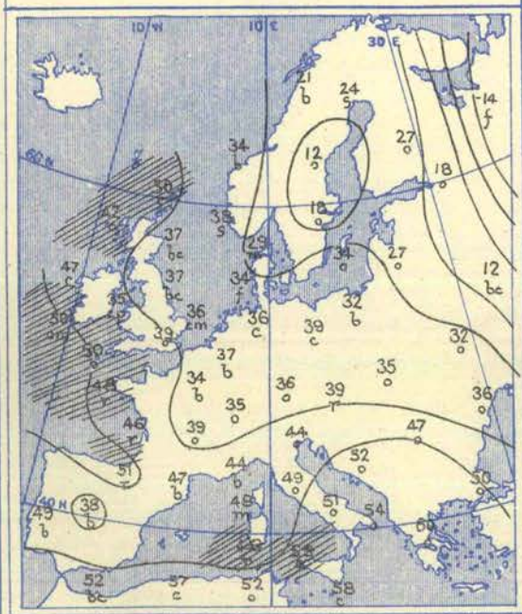
Temperature fallen in Spain and the west of France, changed very irregularly elsewhere. Morning readings highest, 64° at Palermo, 61° at Cagliari and Algiers, and 60° at Barcelona, above 55° over the central and southern parts of the Mediterranean generally. Lowest, −17° Fahr. at Haparanda, −8° at Archangel, and −6° at Uleaborg; considerably below the freezing point over northern Europe generally, and just touching it at Newton Reigny (Penrith). Rising during day to between 45° and 50° in most parts of the United Kingdom. Exceeding 50° in the west of France; exceeding 60° in many parts of southern Europe.

Wind fresh to strong from the Westward or North-Westward in the western and southern parts of our Islands and France, and also over the Spanish Peninsula, with a gale at Biarritz; moderate from the South-Westward over the Netherlands and the eastern parts of Great Britain and France; South-Easterly on the eastern shores of the North Sea, with a gale at Skudesnaes; Easterly or North-Easterly in Sweden and northern Russia, calm in the south of Russia, variable in Austria, Southerly in Italy, no important change occurring during day.

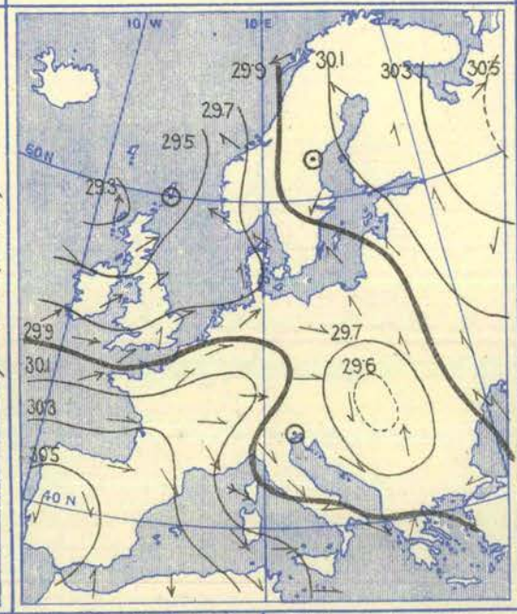
Barometer highest, 30·3 ins. and upwards in an anticyclone over the extreme north of Russia; 30·2 ins. and upwards in another system over the south-west of Spain. Lowest, 28·9 ins. and less in a well-marked depression with its centre off the north of Scotland (small secondary systems reported over various parts of Great Britain and the North Sea), 29·6 ins. and less in a small disturbance over the Gulf of Genoa. Depression in north subsequently moving slowly north-eastwards and partially filling up.

Monday, 4th March.

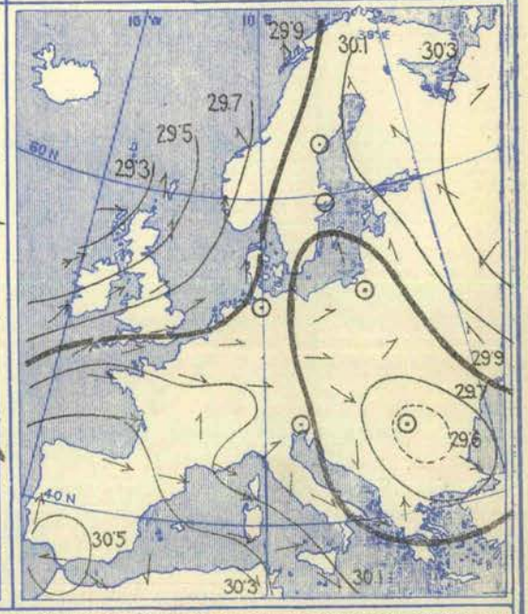
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled over nearly the whole of Europe, with steady rain in the west of France and many parts of England, and with passing showers in the north of Ireland. Rain falling also over Austria and the northern part of the Adriatic, and snow in several parts of Scandinavia. Fine on the north-east coasts of Great Britain and in the west of Norway, as well as over the Spanish Peninsula. Rain falling during day over western and central Europe generally.

Temperature fallen in the eastern parts of Great Britain and the western and southern parts of the Continent, risen elsewhere. Morning readings highest, 60° at Patras, 58° at Malta, and 57° at Algiers; above 50° at several of the Mediterranean stations, and just touching that point on some parts of our own extreme south-west coast. Lowest, −14° Fahr. at Archangel, +12° at Moscow and Hernösand, and 17° at Karlstad, below the freezing point over northern Europe generally. Rising during day to 50° and upwards in many parts of the United Kingdom, and to 55° at Loughborough, exceeding 60° at several stations in southern Europe, and reaching 68° at Palermo.

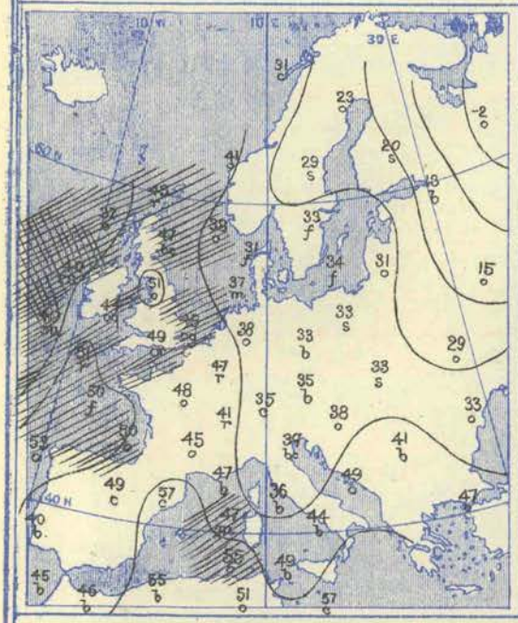
Wind moderate to fresh from the Westward or South-Westward over the western parts of our Islands and France, from the Southward or South-Westward over the eastern parts of Great Britain, and from the South-Eastward on the eastern shores of the North Sea; Easterly over Sweden and the Baltic; North-Westerly in Italy and the south of France; variable in Austria. Increasing at night to a gale from the South-Westward in the west and south of our Islands; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in an anticyclone over Spain; 30·4 ins. and upwards in another system over the extreme north of Russia. Lowest, 29·3 ins. and less in a depression off the north-west of Scotland; 29·6 ins. and less in another system over eastern Austria. Both depressions subsequently moving eastwards; barometer falling briskly on our own western coast.

Tuesday, 5th March.

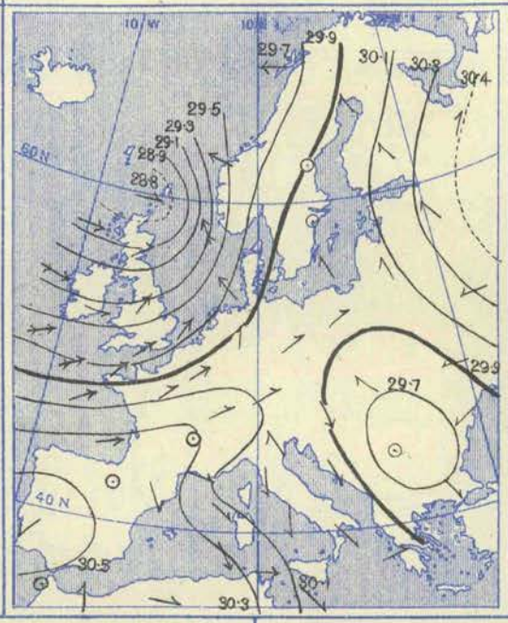
Temperature and Weather.

8 a.m.

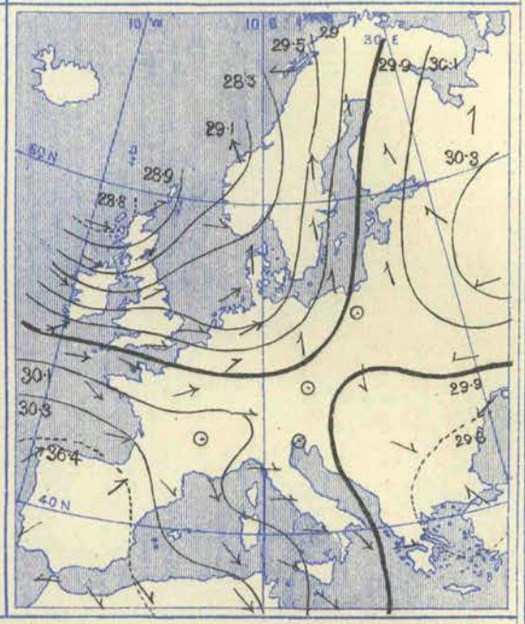


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning squally and showery in these Islands; dull in the western and northern parts of the Continent, with fog in Denmark and the south of Scandinavia, rain in the Netherlands and snow at Hernösand, as well as in several parts of Russia and Austria. Fine in Germany and also over southern Europe generally. Rain, hail, or snow falling later in most parts of western, northern and central Europe; lightning seen at night at Stornoway and Pembroke.

Temperature risen several degrees over western and northern Europe generally, but fallen in Ireland and the west of Scotland. Morning readings highest, 57° at Barcelona and Malta and 55° at Cagliari and Algiers; slightly above 50° in several parts of England. Lowest, −2° Fahr. at Archangel, +13° at St. Petersburg, 15° at Moscow and 19° at Kharkov; below the freezing point over northern Europe generally. Rising during day to 50° and upwards over the central and southern parts of England and to 55° in London; exceeding 60° in Spain and the south of France, and reaching 68° at San Fernando.

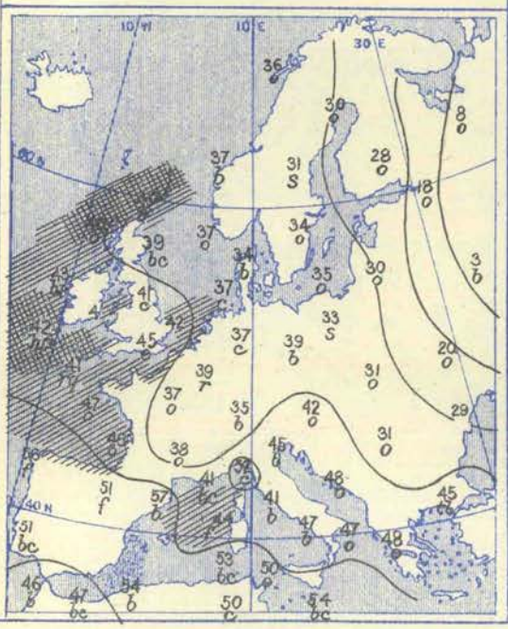
Wind strong to a gale from the Westward on our western coasts and from the South-Westward in many parts of England; light to fresh from the South-Westward over the Netherlands, Germany and the north of France; South-Easterly over Scandinavia, Denmark, and northern Russia, with a gale at Skudesnaes. Northerly or North-Westerly in Italy. North-Easterly or Easterly over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards in an anticyclone over the western and central parts of the Spanish Peninsula; 30·4 ins. and upwards in another system over northern and central Russia. Lowest, 28·8 ins. and less in a deep depression with its centre off the north of Scotland; 29·7 ins. and less in another disturbance over south-eastern Europe. Northern depression remaining almost stationary during day but small secondary systems passing across our Islands and the North Sea. Disturbance over south-eastern Europe moving south-eastwards.

Wednesday, 6th March.

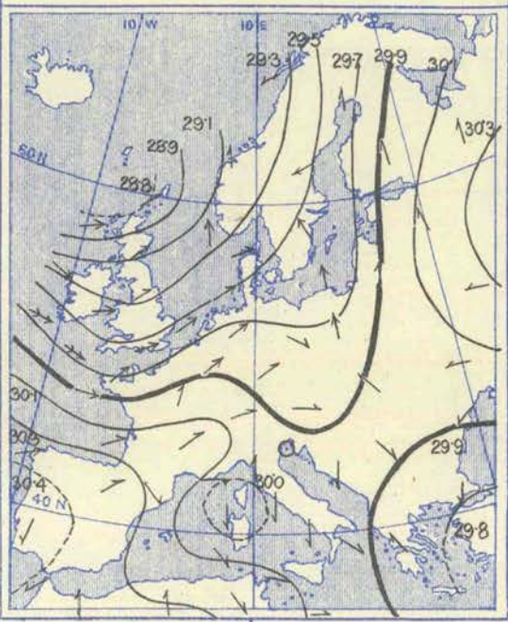
Temperature and Weather.

8 a.m.

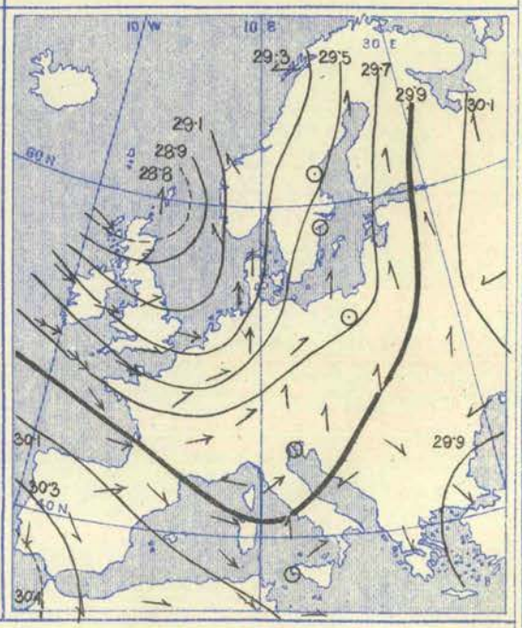


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the eastern parts of Great Britain and also over Denmark, Germany and the greater part of southern Europe. Cloudy or dull elsewhere, with showers on our own western and southern coasts (hail in the west of Ireland) and steady rain in Belgium and the north of France as well as at Breslau and Bilbao. Snow falling in several parts of northern Europe. Rain falling later in most of the western and in many of the southern countries; thunder and lightning occurring in the east and south-east of England.

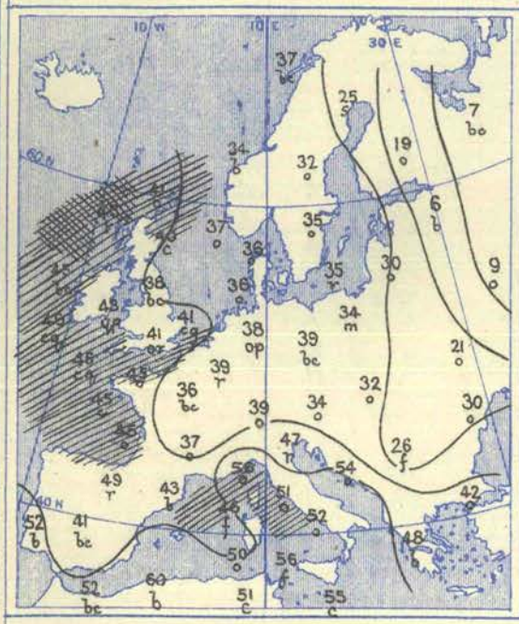
Temperature fallen in our Islands and also over western and southern Russia, risen in most other countries. Morning readings highest, 57° at Barcelona, 56° at Corunna, and 55° at Perpignan; above 50° at the Mediterranean stations generally. Lowest, 3° at Moscow, 8° at Archangel, 16° at Kharkov and 18° at St. Petersburg; below the freezing point over Sweden and Russia generally. Rising during day to 45° and upwards in most parts of the United Kingdom and to 50° at Spurn Head; exceeding 50° in the west of France and exceeding 60° at several of the Spanish and Mediterranean stations.

Wind strong to a gale from the Westward on our western and southern coasts; fresh to strong from the South-Westward over Scotland and the eastern and central parts of England as well as in Denmark and the Netherlands; Southerly or South-Easterly over Scandinavia and northern Russia. Westerly in Germany; variable in Austria; Northerly to Westerly in Italy. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards in Portugal; 30·2 ins. and upwards in an anticyclone lying over the whole of the Spanish Peninsula, Algiers, and the south-west of France, and also in another system over central Russia. Lowest, 28·8 ins. and less in a large and deep depression with its centre off the north of Scotland; 30·0 ins. and less in a shallow disturbance over the Gulf of Genoa. Trough of "V"-shaped secondary depression moving across our Islands during day; large disturbance off the north of Scotland spreading southward

Thursday, 7th March.

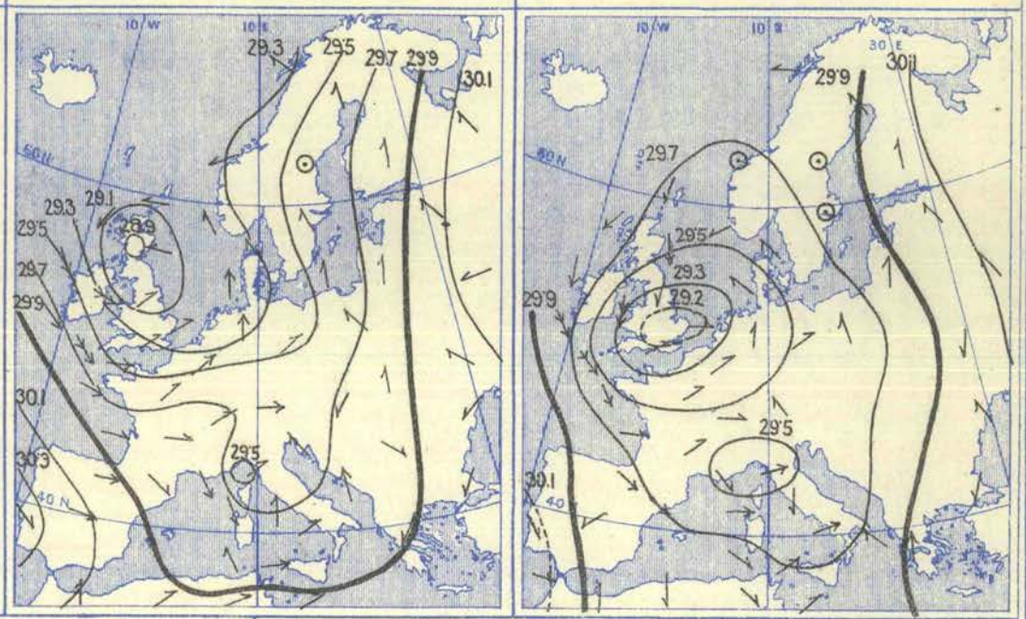
Temperature and Weather. 8 a.m.



Weather in morning squally and showery over the greater part of our Islands. Dull and unsettled at most of the Continental stations, with rain in Denmark and the Netherlands, and also in many parts of southern Europe, and with snow at Haparanda and Swinemunde. Fine over the Spanish Peninsula and also over northern Russia and the west of Norway. Rain or hail falling later in most parts of western and in many parts of southern Europe; lightning seen at Aberdeen at night.

Temperature risen in Ireland and Scotland and also in Italy, fallen in most other countries. Morning readings highest, 60° at Algiers, 50° at Palermo, and 55° at Malta; above 50° at several of the Mediterranean and Spanish coast stations, and above 45° on our own extreme south-west coasts. Lowest, 6° at St. Petersburg, 7° at Archangel, 9° at Moscow, and 19° at Kuopio; below the freezing point over Russia and the north of Sweden generally. Rising during day to between 45° and 50° over the United Kingdom, and to 51° at Jersey; exceeding 60° in many parts of Spain and southern Italy, and reaching 68° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.

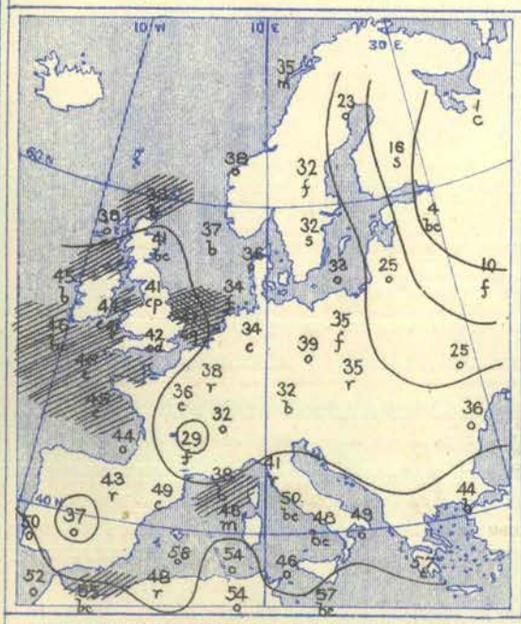


Wind strong to a gale from the North-Westward on our western coasts, and strong from the Westward over the Channel and Bay of Biscay. Moderate to fresh from the South-Westward over Germany, the Netherlands, and the eastern parts of England and France; Southerly in Denmark, South-Easterly in Sweden; Easterly in the east of Scotland. Westerly or North-Westerly over the Spanish Peninsula and the south of France; Southerly in Italy; variable in Austria. Subsequently shifting to the Northward over all the more northern parts of the United Kingdom, and blowing a strong gale in the north of Ireland.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying off the Portuguese coast; 30·1 ins. and upwards in another system over northern and central Russia. Lowest, 28·9 ins. and less in a well-marked depression with its centre over central Scotland; 29·6 ins. and less in a shallow disturbance over northern Italy and the neighbouring parts of France and Austria. Scotch depression subsequently moving southwards across England, and barometer rising rapidly on all our northern coasts.

Friday, 8th March.

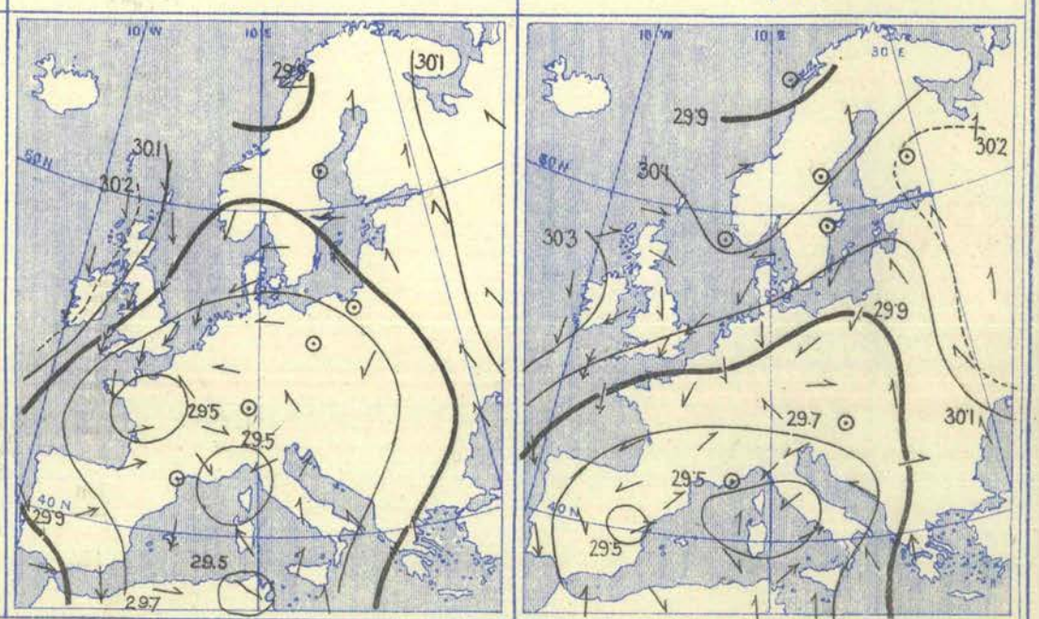
Temperature and Weather. 8 a.m.



Weather in morning squally and showery over England, but fair or fine over Ireland and Scotland. Dull at most of the Continental stations, with rain over the northern parts of France and Italy; snow falling at Kuopio and Nicolaieff. Fine over western and southern Germany. Showers of rain or sleet falling later in the east and south of England, and heavy rain in Italy—as much as 1·7 ins. at Palermo.

Temperature fallen in most of the central and southern countries, changed irregularly elsewhere. Morning readings highest, 58° at Palma, and 57° at Patras, Malta, and Sfax; above 50° over the central and southern parts of the Mediterranean generally. Lowest, 1° at Archangel, 4° at St. Petersburg, 10° at Moscow, and 16° at Kuopio; below the freezing point in the east of France. Rising during day to 45° and upwards in most parts of the United Kingdom, and to 51° at Roches Point; exceeding 55° over Spain and the south of France, exceeding 60° over southern Italy, and reaching 77° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.

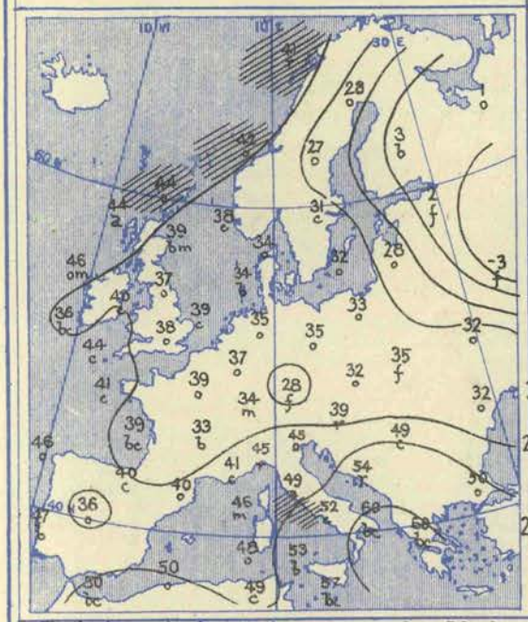


Wind Northerly or North-Easterly over the whole of the United Kingdom, and the north of France, and strong in force on many parts of the English and Irish coasts. Light to moderate from the Eastward or North-Eastward over Denmark, north Germany, and the south of Scandinavia. Westerly or South-Westerly in Spain and the south-west of France; Southerly or South-Easterly over Italy, Greece, and Russia. Subsequently backing to the Westward in the north of Scotland, veering to the North-Westward over the Spanish Peninsula.

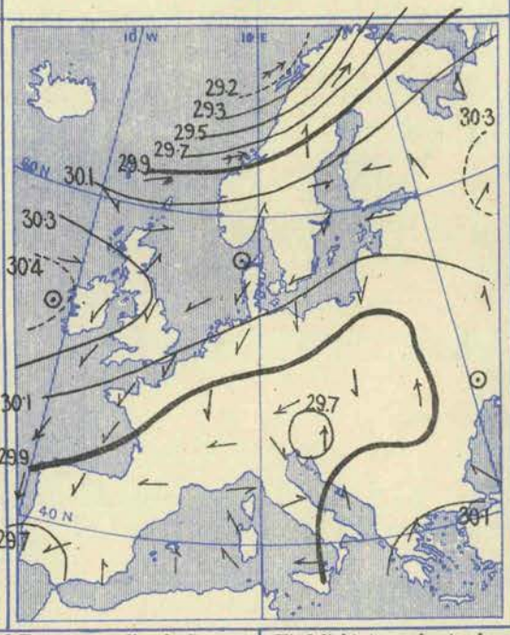
Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of Ireland and Scotland; 30·1 ins. and upwards in another system over Russia. Lowest, 29·5 ins. and less in three depressions—one lying over northern France, another over the Mediterranean, slightly to the southward of that country, and the third over Tunis. Atlantic anticyclone subsequently spreading eastwards over all the more western and northern parts of our Islands; depression over France moving southwards and partially filling up.

Saturday, 9th March.

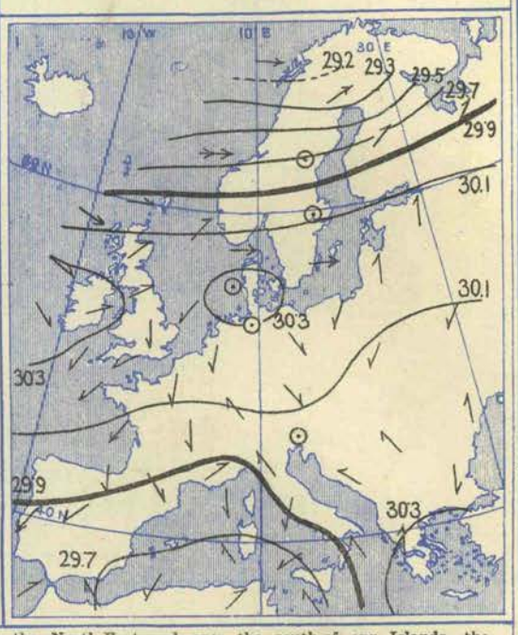
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and France, as well as in Greece and southern Italy, cloudy or dull in other parts of Europe, with rain over northern Italy, and at some of the German and Austrian stations, as well as at Barcelona and Christiansund. Slight rain falling later on our own extreme western and northern coasts, and larger quantities in the west of Norway,—snow at Bodö. Thunderstorm occurring at Biarritz.

Temperature fallen in most parts of western and central Europe, risen in the northern parts of Scotland and Scandinavia. Morning readings highest, 60° at Brindisi and Athens, 57° at Malta, and 56° at Patras; above 50° at several of the Mediterranean and Adriatic stations. Lowest, −3° Fahr. at Moscow, +1° at Archangel, 2° at St. Petersburg, and 3° at Kuopio; below the freezing point over Sweden and Russia generally, and very little above it in the central parts of England and Ireland. Daily maxima below 45° in the east and south-east of England, but above 50° in the east of Scotland and the north-east of England. Thermometer exceeding 55° in Spain and the south of France, and exceeding 60° over southern Italy.

Wind light to moderate from the North-Eastward over the south of our Islands, the Netherlands, France, and the Spanish Peninsula, light from the Northward over Germany and Austria. Light to moderate from the Westward over the northern parts of the United Kingdom; South-Westerly in Scandinavia, with a gale in the west of Norway. Light from between south and east in Russia; variable in Greece and Italy. Subsequently veering to the Westward in the west of Norway; no material change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in the south of Ireland; 30·3 ins. and upwards over central Russia; 30·1 ins. and upwards in a broad "col" extending across our Island, the North Sea, Denmark, and the Baltic. Lowest, 29·2 ins. and less in a deep depression off the north-west of Norway; 29·7 ins. and less in a shallow disturbance over the northern part of the Adriatic and also in another system over Morocco. Depression off the Norwegian coast subsequently moving north-eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week two high pressure systems existed,—one over northern and central Russia and the other over or to the south-westward of the Spanish Peninsula. In the western countries the weather was affected firstly by a depression of moderate depth, the centre of which lay off the north of Scotland on the 3rd, and secondly by a larger and deeper disturbance which appeared in the same neighbourhood on the 5th. Each of these systems occasioned very general falls of rain, and the latter also caused gales over nearly the whole of north-western Europe,—from the South-Westward and Westward in these Islands but from the South-Eastward in Scandinavia.

The depression of the 5th hung almost motionless off our northern coasts until the night of the 6th. It then began to move southwards, and in the course of the 7th and 8th passed right across Great Britain and France, the wind in the meantime shifting to the Northward, and again increasing to a gale on many parts of our coasts, with squally showery weather in all districts. In the rear of the disturbance an anticyclone spread from the Atlantic over nearly the whole of north-western Europe, but at the close of the week this was beginning to give away under the influence of large depressions which were appearing off the Norwegian coasts.

Over Austria, Italy, and the neighbouring parts of the Mediterranean, the conditions were effected by shallow cyclonic systems which formed mostly over the Gulf of Genoa, and which afterwards moved eastwards. These occasioned rain in many parts of the regions mentioned, and in some places the falls were heavy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	13·9	− 6·9	18	− 9	BRIGHTON	24·1	− 4·1	31	− 4
STRATHPEFFER SPA	15·4	− 3·1	20	− 5	WORTHING	19·6	?	25	?
EDINBURGH	16·1	− 3·1	21	− 4	BOGNOR	24·0*	?	31*	?
MORPETH	28·3	?	37	?	WATERGATE (Emsworth)	17·8	?	23	?
NEWCASTLE-ON-TYNE	21·5	?	28	?	WESTBOURNE (Emsworth)	23·2*	− 5·0	30*	− 6
OSWALDKIRK (Yorkshire)	21·7	− 0·9	28	− 1	VENTNOR HOSPITAL	22·3	− 6·9	29	− 9
LOWESTOFT	9·7	?	12	?	SOUTHPORT	24·2	?	31	?
HOLLESLEY BAY	7·9	?	10	?	RHYL	21·2*	?	28*	?
SHEFFIELD	16·9	?	22	?	COLWYN BAY	17·2	?	22	?
WORKSOP	17·8	− 2·5	23	− 3	ABERDOVEY	29·7*	?	39*	?
THURCASTON (Leicestershire)	15·4	− 5·1	20	− 6	TENBY	32·4	+ 3·5	42	+ 4
MARGATE	10·6	−14·3	14	−18	NEWQUAY				
BROADSTAIRS	12·0	?	15	?	TORQUAY	32·8	+ 4·8	42	+ 7
EASTBOURNE	15·2	−12·8	19	−15	GUERNSEY	19·4*	−10·6	25*	−13

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 11.] *Third Series* — WEEK ENDING SATURDAY, MARCH 16TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 62.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	29	48·9	38·1	43·3	5 above	25	+15	11	−22	80	0	353	−35
	1. SCOTLAND, EAST	61	28	48·8	36·1	42·3	3 above	27	+12	17	−18	60	−45	427	−13
	2. ENGLAND, N.E.	57	29	47·5	36·1	41·6	1 above	15	− 2	28	− 7	71	−43	363	−14
	3. ENGLAND, EAST	54	24	44·0	33·6	38·7	2 below	6	−15	30	− 2	79	−51	423	+ 6
	4. MIDLAND COUNTIES	59	28	46·6	35·1	40·7	0 (average)	13	−10	28	− 6	86	−64	427	+ 9
	5. ENGLAND, SOUTH	57	29	45·5	35·3	40·2	2 below	10	−12	25	0	109	−58	341	+21
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	32	48·5	38·9	43·6	3 above	24	+10	9	−17	97	−23	303	−15
	7. ENGLAND, N.W.	58	32	47·7	37·9	42·6	2 above	21	+ 5	11	−14	85	−41	325	+18
	8. ENGLAND, S.W.	58	27	48·6	36·7	42·5	0 (average)	26	+ 4	15	− 6	140	−55	270*	+24
	9. IRELAND, NORTH	54	33	47·7	39·9	43·7	2 above	21	+ 1	6	−17	132	−36	237	−34
	10. IRELAND, SOUTH	56	30	49·0	40·0	44·4	1 above	25	− 1	6	−10	178	−66	223	+20
	—CHANNEL ISLANDS	53	38	48·6	40·7	44·5	1 below	23	− 5	4	− 4	250	−25	118	+17

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 62.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	1	8 less	56	+ 4	9·7	− 2·6	25	+ 4	31	+ 5	122	− 9	18	− 2
	1. SCOTLAND, EAST	3	2	3 less	42	+ 1	5·6	− 0·8	19	− 5	24	− 5	132	−31	19	− 5
	2. ENGLAND, N.E.	3	3	1 less	46	+ 6	4·6	0·0	18	− 7	23	− 8	116	−35	19	− 5
	3. ENGLAND, EAST	3	2	2 less	43	+ 1	4·2	− 0·4	13	−16	16	−19	153	−49	19	− 7
	4. MIDLAND COUNTIES	1	less than ½	4 less	42	+ 3	5·6	+ 0·1	9	−15	11	−18	117	−46	17	− 7
	5. ENGLAND, SOUTH	2	1	3 less	39	− 1	4·9	− 1·0	12	−17	15	−21	169	−30	22	− 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	1	8 less	46	− 2	9·3	− 3·4	12	−12	15	−15	140	−13	20	− 2
	7. ENGLAND, N.W.	2	1	5 less	47	+ 4	5·6	− 1·3	14	− 9	17	−10	147	−24	19	− 4
	8. ENGLAND, S.W.	1	less than ½	6 less	40	− 6	8·0	− 1·2	16	−13	20	−15	196*	+ 3	28	0
	9. IRELAND, NORTH	2	1	5 less	53	+ 3	7·0	− 0·3	2	−21	2	−26	140	−22	20	− 3
	10. IRELAND, SOUTH	3	2	5 less	44	− 4	7·8	− 1·6	7	−20	9	−24	161	−29	22	− 5
	— CHANNEL ISLANDS	3	1	4 less	52	+ 3	6·6	− 0·8	15	−21	18	−26	195	−60	23	− 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather, during this period was very cloudy or dull over the country generally, with a keen, cold air over England, but warmer conditions over Ireland and Scotland. Slight falls of rain were experienced from time to time, first in the west, then in the south and east, but the week, as a whole, was dry.

Temperature exceeded the mean over Ireland and Scotland, as well as over northern England, and just equalled it in the Midland Counties and England S.W.; in the east, south, and Channel Islands it was 1° or 2° below the normal. The highest of the maxima were recorded either at the commencement or about the middle of the week, and ranged from 61° in Scotland N. and E., and 59° in the Midland Counties to 53° in the Channel Islands. During the greater part of the week the daily maxima over England were considerably less than 50°, and in some cases very little more than 40°. The lowest of the minima were recorded on the 10th or 11th over England, but on irregular dates in Ireland and Scotland; they ranged from 24° in England E. and 27° in England S.W., to 32° or less in most other districts, and to 38° in the Channel Islands.

Rainfall was less than the mean in all districts; the falls were very slight generally, and that in the Midland Counties and England S.W. was scarcely appreciable.

Bright Sunshine was very deficient in all districts excepting Scotland N. The percentage of the possible duration ranged from 31 in the last named district to 11 in the Midland Counties, 9 in Ireland S., and 2 in Ireland N.

Barometer and Wind.—During the earlier days of the week the distribution of pressure was anticyclonic over our southern and south-western districts, the winds in those regions being light or moderate from between North and East, and moderate from West and South-West in the north. As the week progressed this high pressure area disappeared, depressions began to advance towards our south-western and southern coasts from the Bay of Biscay, and pressure became highest over Scandinavia. These conditions continued until the end of the period, when a shallow depression having reached our south-east coasts, the wind in the Channel had shifted to the North-Westward or Westward. In all other parts of the Kingdom light or moderate breezes from between north and east were prevalent.

* This value has been altered owing to the receipt of further information for a preceding week.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	37	46·4	39·3	42·8	+ 4·6	17	8	5	0·11	− 0·54	*	*	*	*
	Stornoway	52	34	49·0	38·7	43·7	+ 4·4	26	9	4	0·15	− 0·65	25·9	+ 3·1	32	+ 4
	Wick	56	37	48·7	40·0	44·2	+ 5·2	24	6	4	0·10	− 0·37	*	*	*	*
	Lairg Ⓢ	61	29	51·7	35·3	43·3	+ 6·4	37	19	3	0·06	− 0·64	*	*	*	*
	Glencarron Ⓢ	55	31	47·9	36·9	42·2	+ 4·4	23	14	5	0·39	− 1·16	*	*	*	*
	Fort Augustus Ⓢ	56	30	50·0	38·1	43·9	+ 4·6	30	11	3	0·08	− 0·65	29·8	+13·0	37	+16
	Fort William Ⓢ	53	34	48·3	38·4	43·2	+ 3·2	24	10	3	0·07	− 1·33	22·3	+ 1·3	28	+ 2
1. SCOTLAND, E.	Nairn	59	28	50·9	35·6	43·0	+ 3·6	34	18	2	0·12	− 0·23	*	*	*	*
	Aberdeen	61	35	49·6	37·3	43·3	+ 3·5	29	13	2	0·15	− 0·37	27·7	+ 1·1	35	+ 3
	Braemar Ⓢ	50	29	44·5	34·0	39·1	+ 3·3	7	29	3	0·07	− 0·48	*	*	*	*
	Ochtertyre Ⓢ	59	33	50·6	37·1	43·7	+ 4·1	32	14	2	0·03	− 0·62	*	*	*	*
	Leith	55	33	48·7	38·3	43·4	+ 2·3	25	10	3	0·23	− 0·09	*	*	*	*
	Marchmont Ⓢ	57	33	48·7	34·3	41·3	+ 1·6	19	30	3	0·32	− 0·22	21·5	− 1·5	27	− 1
2. ENGLAND, N.E	Alnwick Castle	56	33	49·2	36·8	42·8	+ 3·1	27	15	4	0·51	− 0·02	*	*	*	*
	Durham	57	31	49·0	35·4	42·0	+ 2·3	20	18	4	0·46	+ 0·01	18·4	− 6·4	23	− 8
	Shields	56	36	48·3	36·9	42·4	+ 2·1	24	14	2	0·65	+ 0·26	*	*	*	*
	Scarborough Ⓜ	52	37	47·5	39·0	43·1	+ 2·3	20	8	4	0·17	− 0·25	16·8	?	21	?
	Spurn Head	47	34	44·4	36·0	40·1	− 0·3	7	22	3	0·08	− 0·20	*	*	*	*
	Fulbeck (Lincolnshire)	54	29	46·4	32·2	39·1	− 1·2	12	36	3	0·04	− 0·26	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	51	26	44·2	32·7	38·3	− 2·7	6	33	5	0·14	− 0·24	11·6	−14·1	14	−18
	Yarmouth	46	33	42·1	35·4	38·7	− 1·3	0	23	2	0·33	− 0·06	*	*	*	*
	Geldeston	52	31	43·8	33·9	38·7	− 2·3	5	29	2	0·23	− 0·12	16·0	−12·0	20	−15
	Cambridge	54	24	46·0	31·7	38·6	− 2·7	11	37	2	0·14	− 0·18	9·1	−18·2	11	−23
	Felixstowe	51	35	43·3	36·7	39·9	− 0·9	4	19	2	0·25	?	14·0†	?†	17†	?†
	Rothamsted	53	25	44·7	31·2	37·8	− 2·8	8	39	3	0·06	− 0·33	7·6	−18·7	9	−23
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	31	47·6	36·1	41·7	+ 0·9	16	24	4	0·10	− 0·26	*	*	*	*
	Loughborough	55	28	47·0	34·1	40·4	− 0·9	14	30	1	0·02	− 0·33	*	*	*	*
	Colly Weston (Stamford)	55	29	45·9	31·9	38·7	− 1·7	11	37	1	0·01	?	*	*	*	*
	Cheadle Ⓜ	55	33	45·7	36·0	40·7	+ 0·9	10	23	0	—	− 0·50	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	56	32	45·3	36·9	41·0	+ 0·4	9	19	0	—	− 0·35	5·8	?	7	?
	Churchstoke Ⓜ	55	29	47·7	35·6	41·5	+ 1·5	16	25	1	0·02	− 0·43	12·1	−13·9	15	−17
	Hereford (Belmont) Ⓜ	59	28	48·6	36·2	42·2	+ 0·4	26	16	1	0·01	− 0·35	*	*	*	*
	Cirencester	55	27	45·6	35·0	40·1	− 0·1	10	26	0	—	− 0·45	9·8	−16·2	12	−20
	Oxford	55	31	46·0	33·9	39·8	− 1·8	11	30	1	0·01	− 0·34	3·8	−21·5	5	−27
5. ENGLAND, S.	London	52	31	45·4	33·6	39·3	− 2·9	10	30	1	0·06	− 0·28	3·0†	−15·2†	4†	−19†
	Swarraton (Alresford) Ⓜ	53	29	45·1	32·7	38·7	− 1·8	9	33	1	0·15	− 0·33	*	*	*	*
	Dungeness	48	34	44·0	37·4	40·6	− 0·8	6	17	2	0·16	− 0·14	11·7	?	14	?
	Hastings (St. Leonards)	52	33	45·4	36·5	40·8	− 1·1	10	21	3	0·14	− 0·31	13·5	−17·1	17	− 21
	Southampton	57	32	48·2	35·3	41·6	− 1·4	17	27	2	0·08	− 0·39	5·5	−22·9	7	− 28
	Portland Bill	52	34	45·6	36·9	41·1	− 2·5	10	19	1	0·02	?	*	*	*	*
	Shaftesbury Ⓜ	52	33	43·8	34·6	39·1	− 1·6	5	26	1	0·13	− 0·36	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	52	34	49·7	39·7	44·6	+ 3·5	28	6	3	0·12	− 1·28	*	*	*	*
	Glasgow	54	37	47·4	40·7	44·0	+ 4·0	19	4	3	0·13	− 0·44	3·9	−14·9	5	−18
	Glenlee Ⓢ	54	32	49·4	36·0	42·5	+ 2·7	29	17	2	0·04	− 0·88	*	*	*	*
	Douglas (Isle of Man)	53	34	47·5	39·3	43·3	+ 1·9	20	8	2	0·09	− 0·56	13·7	− 9·3	25	−11
7. ENGLAND, N.W.	Newton Reigny	58	32	49·1	35·3	42·0	+ 3·0	20	19	3	0·06	?	14·2	?	18	?
	Stonyhurst	52	32	47·4	37·1	42·1	+ 1·9	21	14	1	0·02	− 0·75	22·1	− 1·1	28	− 1
	Blackpool Ⓜ	55	32	47·8	37·4	42·5	+ 1·6	23	13	2	0·02	− 0·46	8·6	−14·4	11	−18
	Manchester (Prestwich)	54	36	48·8	37·6	43·0	+ 2·6	25	12	2	0·03	− 0·52	10·0	?	13	?
	Liverpool Obsy. (Bidston)	53	36	46·1	38·7	42·3	+ 0·7	16	9	5	0·11	− 0·27	4·4	?	5	?
	Chester (Hawarden Bridge)	56	?	48·0	?	?	?	?	?	1	0·01	?	*	*	*	*
	Llandudno Ⓜ	56	38	47·5	40·1	43·7	+ 0·8	20	5	2	0·02	− 0·43	15·5	− 8·8	19	−11
	Holyhead	54	37	47·0	38·9	42·8	+ 0·1	19	9	2	0·12	− 0·39	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	27	50·4	35·0	42·5	+ 1·1	33	20	0	—	− 0·80	*	*	*	*
	Pembroke	57	38	48·1	39·6	43·7	+ 0·9	22	7	0	—	− 0·53	9·9	−19·5	12	−24
	Clifton	56	32	? 50·4	? 36·7	? 43·4	? + 1·0	? 32	? 15	0	—	− 0·51	*	*	*	*
	Bath	58	29	47·1	35·1	40·9	− 1·0	14	26	0	—	?	10·9	?	13	?
	Arlington (N. Devon)	54	28	47·9	34·0	40·7	− 0·1	17	30	0	—	− 0·79	*	*	*	*
	Cullompton Ⓜ	58	28	49·4	34·8	41·9	− 1·3	21	29	0	—	− 0·54	14·9	−12·5	18	−16
	Falmouth	53	37	47·4	39·7	43·4	− 0·8	19	6	3	0·11	− 0·64	22·3	− 8·6	28	−10
	Plymouth	52	35	48·2	39·0	43·5	− 0·3	23	8	1	0·01	− 0·56	13·7	−16·2	17	−20
9. IRELAND, N.	Malin Head	53	37	46·9	40·6	43·7	+ 1·6	18	4	2	0·06	?	*	*	*	*
	Londonderry	54	36	49·6	39·8	44·6	+ 2·5	27	6	3	0·12	− 0·53	*	*	*	*
	Edenfel (Omagh)	51	35	46·4	39·6	42·9	+ 2·8	16	7	2	0·14	− 0·42	*	*	*	*
	Blacksod Point	53	38	48·4	41·7	45·0	+ 1·5	22	1	3	0·04	?	*	*	*	*
	Markree Castle	53	33	47·3	39·2	43·1	+ 1·3	19	8	1	0·03	− 0·62	0·7	−22·3	1	−27
	Armagh	54	34	47·6	39·2	43·3	+ 2·2	21	8	2	0·11	− 0·35	2·4	−20·3	3	−25
	Donaghadee	54	35	47·6	39·1	43·2	+ 1·1	21	8	2	0·04	− 0·41	*	*	*	*
10. IRELAND, S.	Dublin	55	40	49·5	42·1	45·7	+ 2·4	26	9	3	0·20	− 0·25	13·3	−13·7	16	−17
	Parsonstown	55	30	48·4	37·4	42·7	+ 0·7	24	13	3	0·08	− 0·42	5·2	−19·2	6	−24
	Kilkenny	56	33	48·7	39·0	43·7	+ 0·8	25	8	2	0·11	− 0·37	*	*	*	*
	Roche's Point	52	37	49·3	41·4	45·2	+ 0·8	25	2	0	—	− 0·77	*	*	*	*
	Valencia	53	35	49·9	40·9	45·3	− 0·1	28	3	4	0·08	− 0·82	3·5	−25·5	4	−31
	Killarney	56	33	? 48·8	40·0	? 44·3	? 0·0	? 25	? 6	3	0·49	− 0·40	*	*	*	*
	Foynes	54	33	48·5	39·5	43·9	+ 0·6	24	7	3	0·07	− 0·52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	38	49·3	41·0	45·0	− 0·9	25	3	3	0·11	− 0·41	18·4	?	23	?
	Jersey	52	38	47·9	40·3	44·0	− 0·6	21	5	2	0·14	− 0·38	14·6	−19·3	18	−24

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

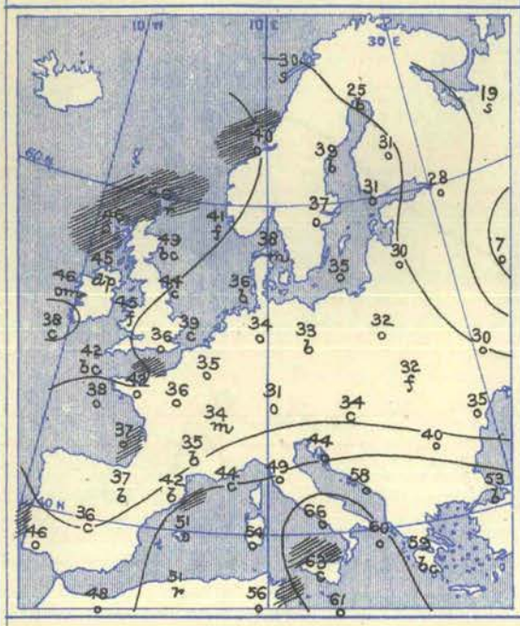
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

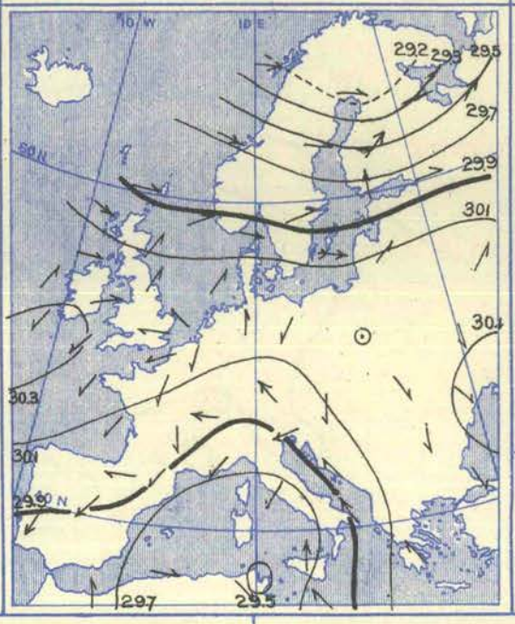
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 10th March.

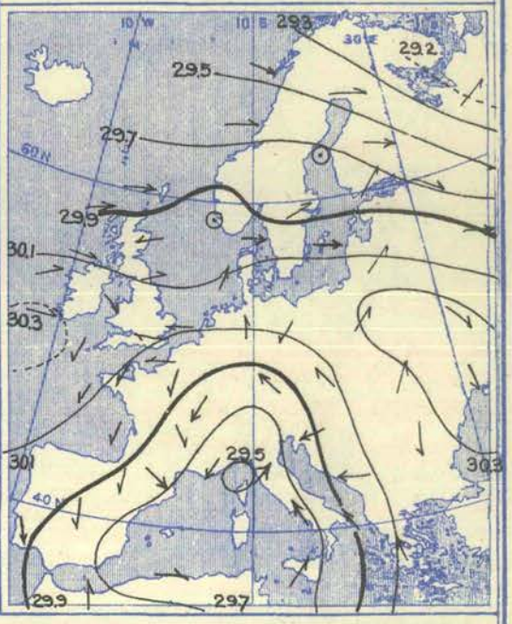
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair, but dull, over central Europe, Holland, England and Ireland, clear over the northern part of the Gulf of Bothnia and over Scotland. Cold showers reported at Christiansund and in the north of Ireland, and weather unsettled over the Mediterranean. A very little rain later over various parts of Ireland and Scotland, and more in the southern parts of France.

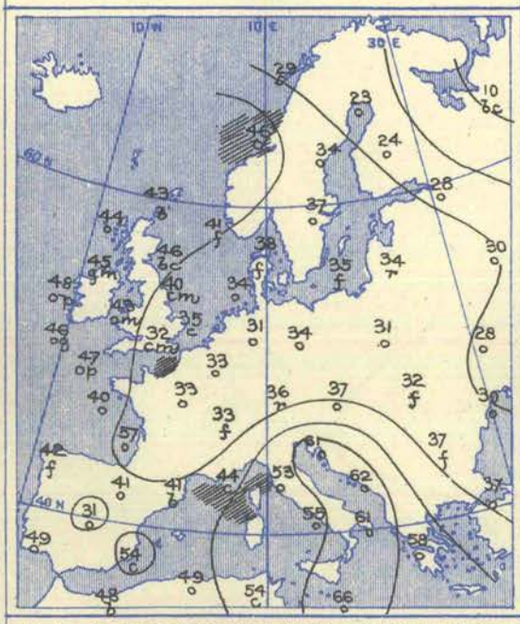
Temperature risen in the northern parts of the British Islands and some parts of Sweden. Morning readings highest, 66° at Naples, and above 60° over the south of Italy (with Sicily) generally; 51° at Algiers; 45° at Bilbao, as well as on the extreme north-west coast of the British Islands, 40° at Christiansund. Lowest, 7° Fahr. at Moscow, 19° at Archangel, 28° at St. Petersburg, 30° at Riga. Rising later to 61° at Aberdeen, and to more than 50° on our extreme north and west coasts generally; to 61° at the Azores, 70° at Naples, and 73° at Rome, but not much exceeding 41° over Scandinavia.

Wind was light and anticyclonic over the British Isles and also over central Europe. Strong to a gale from between North-West and South-West (cyclonic) over northern Europe, South-Easterly to North-Easterly (cyclonic) over southern Europe and the Mediterranean. The gales over northern Europe subsiding later; the winds over southern Europe (Italy and neighbourhood) becoming very strong, but the British Islands and central Europe remaining quiet.

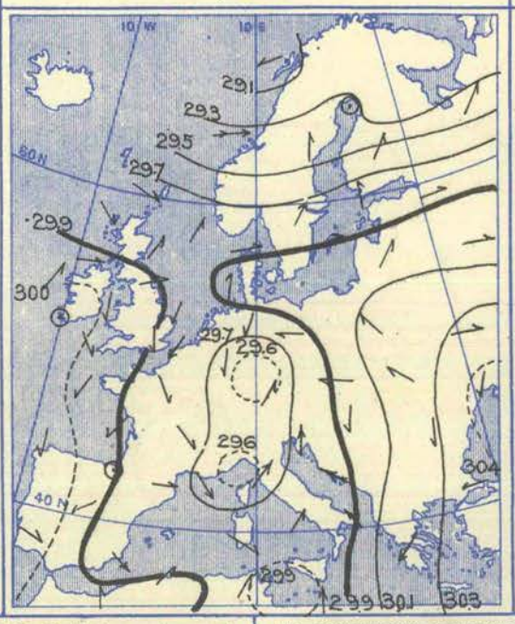
Barometer in morning highest, 30·3 ins. and more to 30·1 ins. in a band extending from the Atlantic across the south of our Islands, the north of France and the Netherlands to Germany and the south of Russia. It had in it two maxima—one over and off the south of Ireland, the other over north Germany. Lowest, (1) 29·2 ins. and less over Lapland; (2) 29·6 ins. and less in a depression over the Mediterranean. The northern depression moving north-eastward later, that in the south moving northwards.

Monday, 11th March.

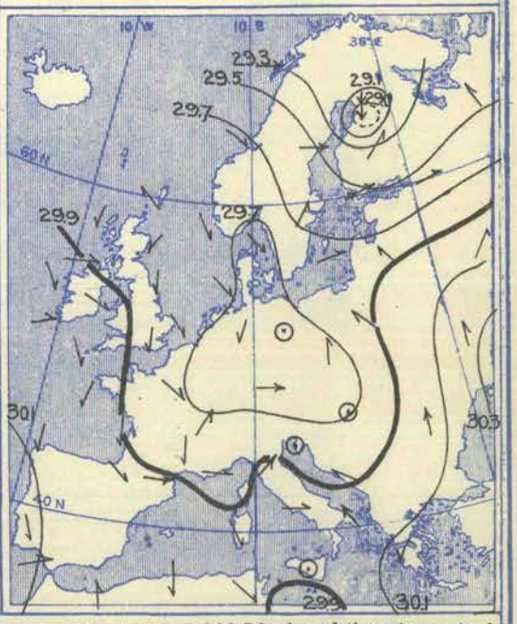
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fair but dull over Ireland, England, the North Sea, eastern and central Europe, foggy at several of the continental stations, hazy over the British Islands. Unsettled over the east of France and west of Germany, with rain in several places; snow falling at Bodö. A little rain later at our north-western and northern stations, and rain and sleet over Germany; remaining moderately fair over Ireland, England, and the west of France, rain at Bilbao.

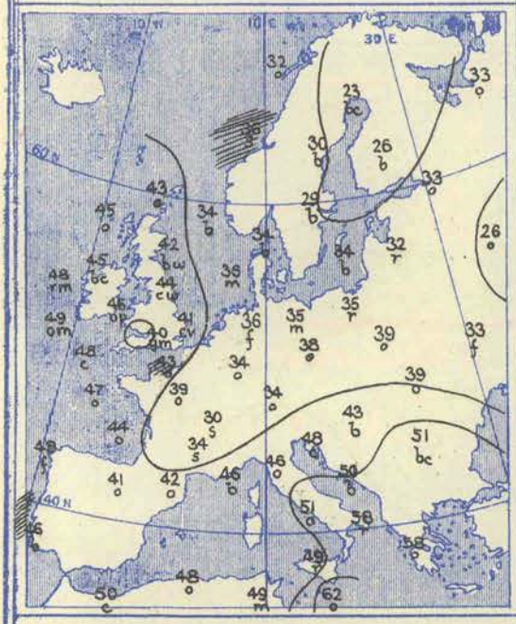
Temperature changing irregularly—risen over Ireland, England, the south-west of Germany, and at Moscow. Morning readings highest, 66° at Malta, 50° at Algiers, 48° at Blacksod Point, 47° at Scilly and Leith, 46° at Christiansund. Lowest, 10° at Archangel, 28° at Uleaborg, St. Petersburg, and Kieff, 32° at Copenhagen, 35° at Yarmouth. Touching 50° to 54° later on our north-east, north, and west coasts, and reaching 54° at Lorient, 63° at the Azores, 68° at Brindisi, 70° at Palermo.

Wind (1) still light, and mainly anticyclonic, over the British Islands, and the eastern parts of central Europe; (2) Westerly to Southerly over northern Europe, and blowing a gale at Christiansund; (3) Southerly to South-Easterly over Austria and western Germany, blowing a gale or strong breeze from between East and South over the Adriatic, and strong North-Westerly at Toulon. Westerly to Northerly gales experienced later over Finland; and a South-Westerly gale at Toulon. Continuing light North-Westerly (anticyclonic) over the British Isles

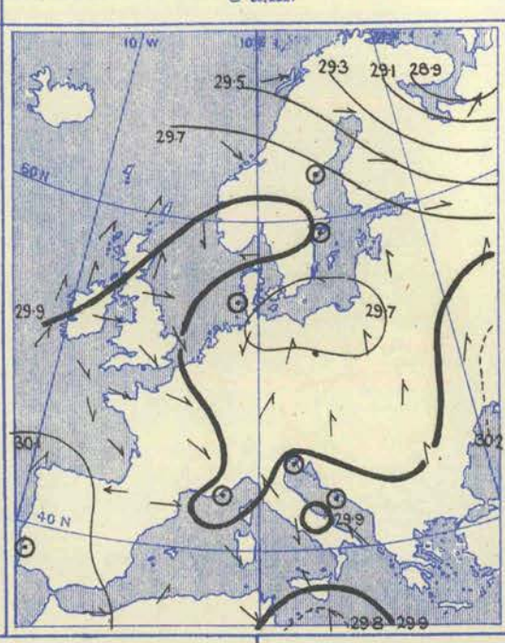
Barometer highest, (1) 30·0 ins. and more to 29·9 ins. over Ireland, England, and the western parts of France and Spain, (2) 30·4 ins. over the Black Sea, and exceeding 30·0 ins. over all the southern parts of Russia. Lowest, (1) 29·1 ins. and less over Finmark; (2) 29·7 ins. and less in a complex depression over western Germany, Switzerland, and the south-east of France; (3) 29·8 ins. and less near Malta. Deep but small depression advancing later to the north of Finland; German depression moving north-eastwards and spreading, little change in the one near Malta.

Tuesday, 12th March.

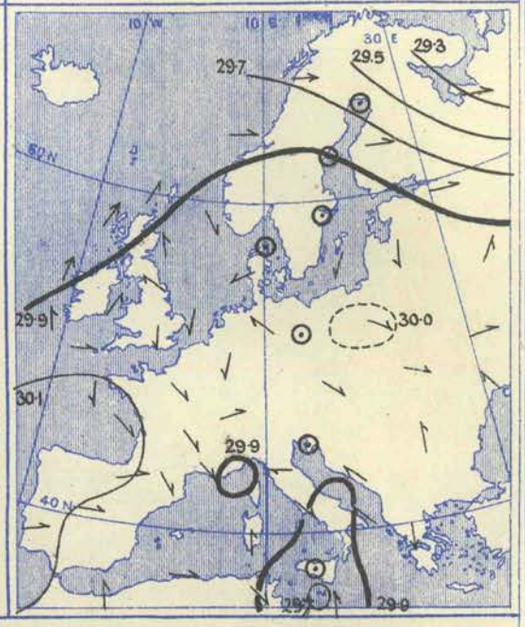
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over several parts of south-eastern Europe as well as over Finland, Sweden and Skager Rack; cloudy generally elsewhere with rain at a few British stations, over the Baltic Provinces, and in some parts of Italy; snow in the south-east of France. Small quantities of rain later at several of our northern stations, more in Germany, and 3¼ inches of fall reported at Brindisi.

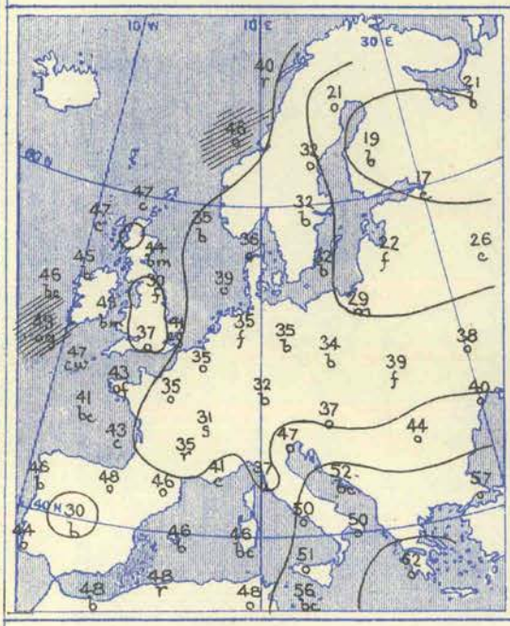
Temperature risen a little over our Islands and in many parts of Continental Europe, fallen over Norway and the south-east of France. Morning values highest, 62° at Malta, 58° to 55° over south-eastern Europe, 49° at Valencia, 48° at Scilly and Blacksod, 47° at Penrith. Lowest, 23° at Haparanda, 26° at Kuopio, Moscow and Karlstad, 32° at Riga. Rising subsequently to between 55° and 50° in many parts of our Islands to 54° at Brest and Nice, to 61° at Oporto and in the south of Italy, and 68° at Malta.

Wind very variable; light and mainly anticyclonic over central Europe and over the Bay of Biscay and our own south-western districts. Westerly (South-Westward to North-Westward) over northern Europe and blowing very strongly in the far north; exceedingly variable, but chiefly cyclonic, over the Mediterranean. Southerly and South-Westerly, increasing in strength, felt later over the west and north of our Islands, but wind in northern Europe subsiding greatly. Little general change elsewhere.

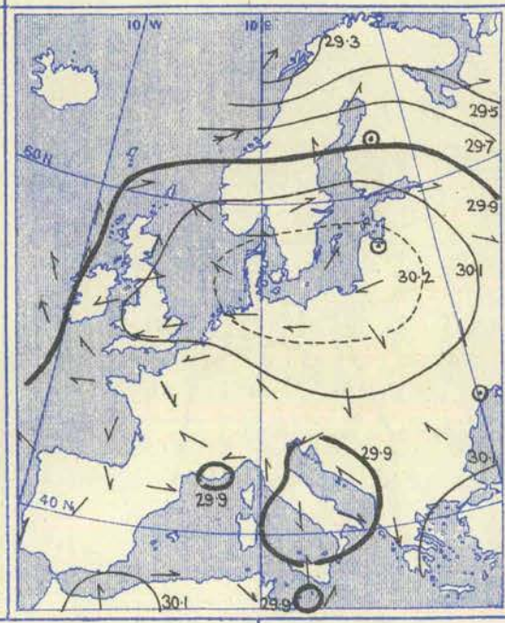
Barometer highest, 30·1 ins. and more over Spain, 30·0 ins. and more over the Bay of Biscay, and exceeding 29·9 ins. in a "ridge" extending north-eastwards across the North Sea to the south of Norway; 30·0 ins. and more over Asia Minor, the Black Sea, and south of Russia; and 30·11 ins. at Brindisi. Lowest, 29·0 ins. and less over the White Sea; 29·8 ins. to 29·9 ins. over the north-west of Scotland and extreme north of Ireland; below 29·7 ins. in a depression over the southern part of the Baltic and north Germany; 29·76 ins. at Malta. Rising later over northern Europe, falling a little at Malta, and fast in the Azores.

Wednesday, 13th March.

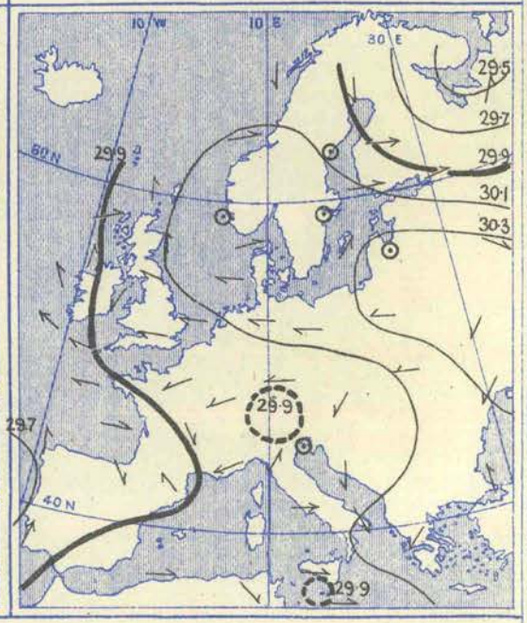
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the Baltic and north Germany, dull, but as a whole fair, over France, Germany, and England, foggy at our inland station. Rain falling at Bodö. Rain later over France, England, and Denmark, and a few slight sporadic falls in Ireland and Scotland, but none falling generally over those countries.

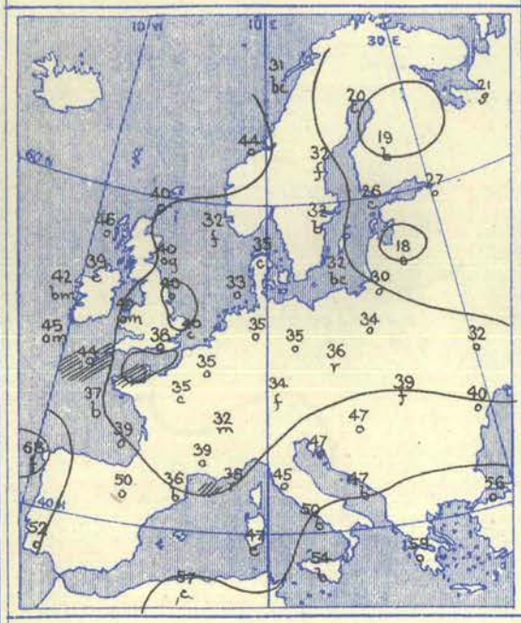
Temperature changing irregularly. Morning readings highest, 62° in Greece, 56° at Malta, 52° at Lesina, 49° at Valencia, 47° at Scilly and Stornaway, 46° at Parsonstown. Lowest, 17° at St. Petersburg, 19° at Kuopio, 22° at Riga, 33° to 35° over northern Germany, 31° at Oxford. Not touching 50° later at any of our own stations. Maxima only 41° over the eastern half of England, 50° to 54° in the west of France, 65° at Perpignan and Malta.

Wind over Continental Europe light and mainly anticyclonic, except at the extreme north-western stations. Southerly and freshening in Ireland and Scotland, South-Westerly (strong to a gale) on the north-western coast of Norway. Wind in latter region veering to Northward later and becoming moderate, and very little change in Ireland and Scotland—none over Continental Europe as a whole, but rising a little from East at our eastern stations.

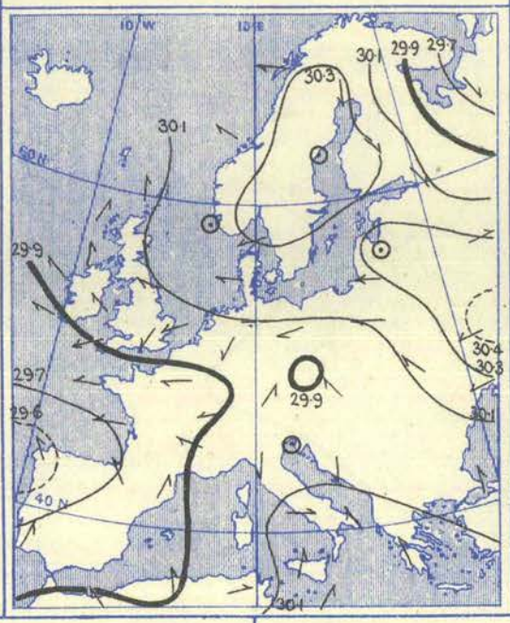
Barometer highest, (1) 30·2 ins. and more over north Germany, Denmark, and the Baltic, and exceeding 30·0 ins. all over Great Britain, the north and west of France, and the east of Spain; (2) 30·1 ins. and more over the western part of Algeria, and over the Black Sea. Lowest, (1) 29·25 ins. at Bodö, 29·9 ins. and less in the west of Ireland; (2) about 29·8 ins. in a depression over the Adriatic. Increasing later over central Europe, and the German anticyclone moving eastwards, falling over western Europe.

Thursday, 14th March.

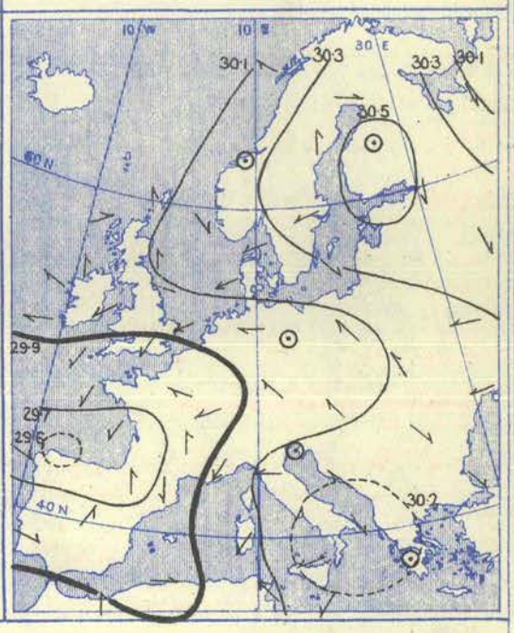
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Finland, fair but cloudy over Russia, fair and dull over the British Islands and the north and west of France, foggy and rainy over central Europe and the south-east and south of France. Some rain later over Germany and France (0·4 at Nice) and large quantities in some parts of Spain, as well as at Oran and Kiev.

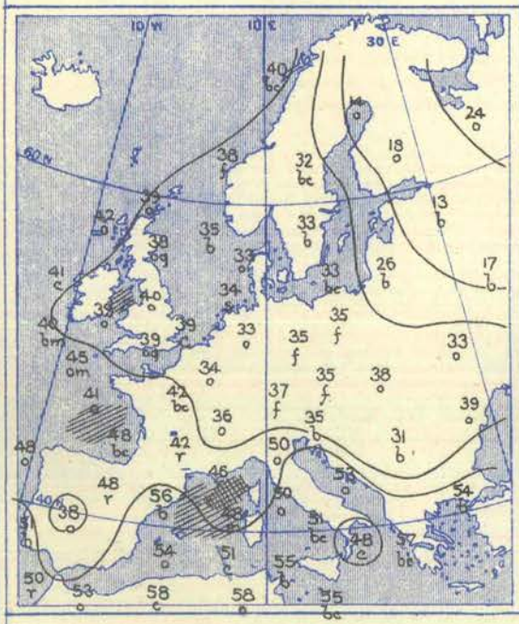
Temperature fallen over northern Europe and the British Islands. Morning readings highest, 59° at Patras, 57° at Algiers, 53° at Bilboa, 45° in the south of Ireland and at Jersey, 43° at Dungeness. Lowest, 12° at Uleaborg, 18° at Riga, 35° at Berlin, Brussels, Paris; 39° at Le Mans, Lyons and Rochefort. Rising later to 50° at Stornoway, 49° at Nairn, 48° at Pembroke, Scilly, and Jersey, to 51° at Brussels, 54° at Rochefort, 63° at Biarritz and Perpignan; 75° at Algiers, 80° at La Calle.

Wind light and anticyclonic, (1) over northern Europe; (2) over the south of Russia and south-eastern Europe generally; cyclonic Southerly, but moderate in force over the Spanish Peninsula; Easterly over England, South-Easterly over Ireland, Southerly over Scotland. Veering to Westward later over Portugal, increasing from Eastward over north Germany, falling light all over the British Islands.

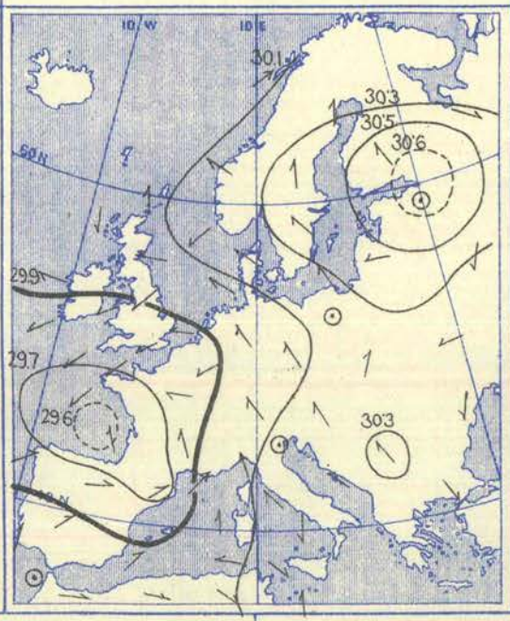
Barometer highest, (1) exceeding 30·2 ins. over the whole of northern Europe and Russia, in an area having two maxima. In the northern one, the highest readings exceeded 30·3 ins. in that over the south of Russia they exceeded 30·4 ins. (2) 30·1 ins. or more over the southern parts of Italy and over Sicily. Lowest, (1) 29·6 ins. and less in a depression off the north-west of the Spanish Peninsula; (2) 29·7 ins. and less over the extreme north of Russia. The southern depression moving north-eastwards later to the Bay of Biscay; that in the north filling up; the anticyclone over Scandinavia increasing in intensity and moving south-eastwards to Finland.

Friday, 15th March.

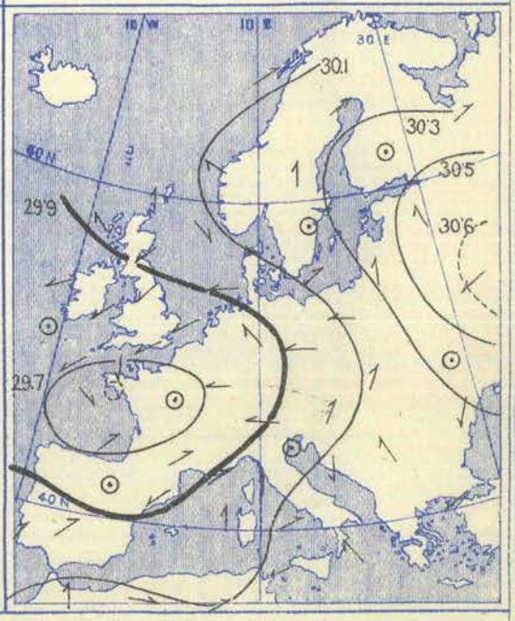
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Russia and northern Europe, foggy in several parts of Germany dull and hazy over Ireland and England, rainy in south-west and south of France. Rain later over the whole of France and Spain; heavy in places, slight over nearly the whole of England, and sporadic falls over Scotland and the eastern shores of the North Sea; slight sleet at Scilly.

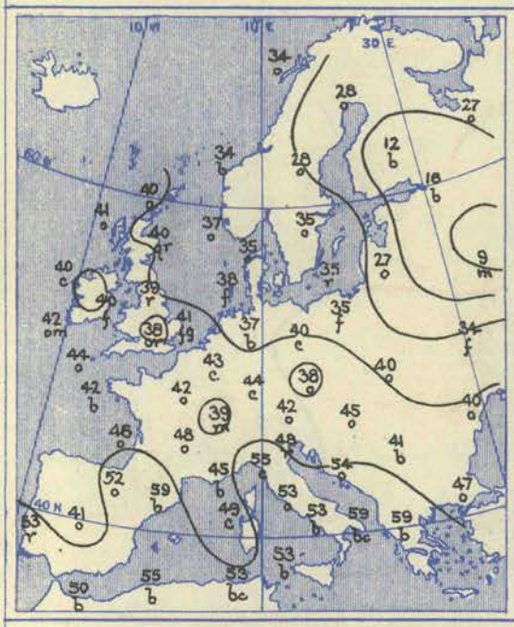
Temperature little changed over the United Kingdom, risen over north Germany, fallen over Austria-Hungary. Morning readings highest, 58° at Algiers, 55° at Malta and Palermo, 51° at Naples, Cagliari and Lisbon, 45° at Scilly, 40° to 41° on the Irish coast and at Wick and Shields. Lowest, 13° at St. Petersburg, 17° at Moscow, 18° Kuopio, 33° at Kieff, 26° at Riga, 35° to 38° over central Europe. Rising later to between 49° and 45° over the greater part of our Islands to 57° at Frankfürt, Munich and Nice, to 61° at Marseilles, to 75° at La Calle.

Wind, (1) light and anticyclonic over northern, eastern and south-eastern Europe; (2) moderate, but cyclonic, in the west and north-west—viz., Easterly over the North Sea and British Islands, variable and Southerly in France, Westerly and South-Westerly over Spain. The South-Westerly breeze spreading later from Spain to the southern half of France, and a strong South-Westerly breeze setting in at Bodö.

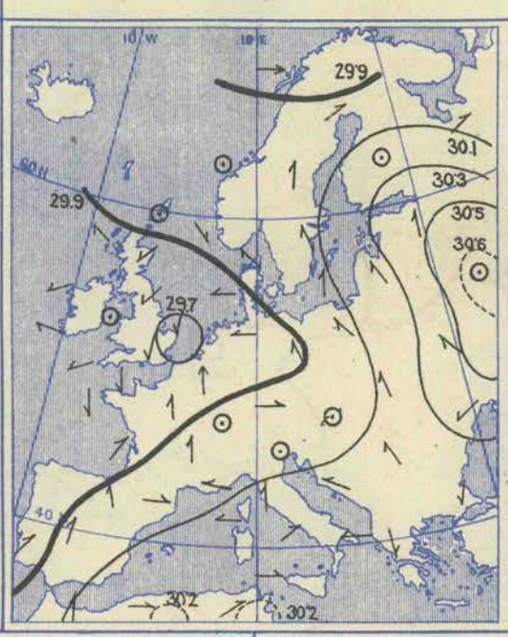
Barometer highest, (1) 30·62 ins. at St. Petersburg, and varying from 30·6 ins. to 30·4 ins. all over Russia; (2) 30·32 ins. at Hermanstadt. Lowest, 29·6 ins. to 29·7 ins. in a well-marked but not deep depression over the Bay of Biscay, and below 29·9 ins. over France, England and Ireland. Anticyclone in north, moving south-eastwards later, depression off the west of France moving north-eastwards to Brittany.

Saturday, 16th March.

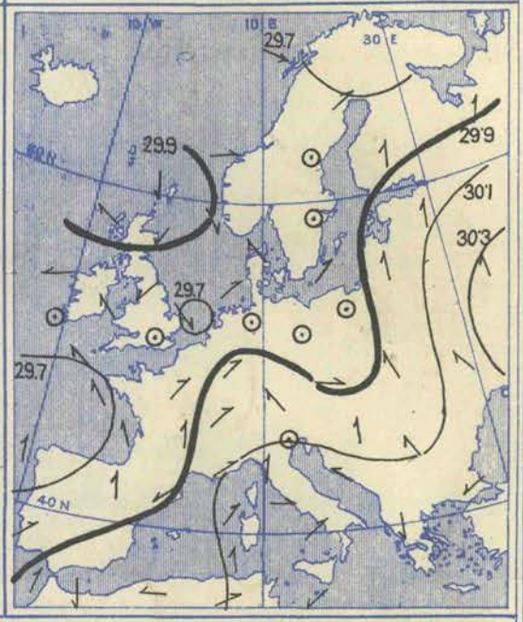
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Finland and the north of Russia, dull almost everywhere else with fog or haze in many places, rain in the north-east and east of England, as well as in Portugal, some parts of France, and at Wisby. Rain later over the Peninsula, several parts of France and south Germany, as well as in the east and north of our Islands, and a few parts of Scandinavia.

Temperature changed little and irregularly as a whole, but risen over south-eastern Europe. Morning readings highest, 59° at Patras, Brindisi, and Barcelona, 57° at Bilbao; 48° at Lyons, 45° at Buda Pesth; 44° at Scilly, 42° at Malin Head, 40° at Dungeness and Aberdeen. Lowest, 12° at Kuopio, 9° at Moscow, 16° at St. Petersburg, 27° at Riga; 36° to 38° over the central parts of England and Ireland. Rising later to 48° at Loughborough, and in the south of Ireland, 52° at Jersey, 61° at Lyons, 63° at Perpignan, and in the Azores.

Wind very light and anticyclonic over Russia; Southerly and South-Westerly over the Peninsula, France, and Holland; Easterly to Northerly over the North Sea and British Islands, very variable over the English Channel, and also over the Mediterranean; light everywhere, calm in places. Very little change later, except a tendency of the Southerly wind to freshen in Portugal.

Barometer in morning highest, (1) 30·65 ins. at Moscow, and varying between that value and 30·2 ins over Russia as a whole. (2) 30·2 ins. and more over central parts of Algeria and Tunis. Lowest, 29·7 ins. and less to 29·8 ins. in a complex hollow stretching eastwards from the Atlantic over Ireland, England, and the north and north-west of France. A "minimum" near Yarmouth filling up, another approaching our south-west coasts and the Bay of Biscay from the south-west; barometer in these last-named regions falling during day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week a band of high pressure, in which readings exceeded 30·2 ins., stretched eastwards from the Atlantic across Ireland, England, and the north of France to Germany and central Russia. In it were two maxima, one over Germany, the other off our south-west coasts, and in these the values exceeded 30·3 ins. To the northward of this band pressure decreased to 29·2 ins. and less over Lapland, while to the southward it decreased to 29·5 ins. over Tunis. Westerly to Southerly winds accordingly prevailed in the north and blew strongly in places, while most of the southern countries had winds from East and North; but the south of Italy had South-Easterly and Southerly. Gradually the German anticyclone moved South-Eastwards, increasing in intensity, while that over the Atlantic spread till on Tuesday it covered all of western Europe, and, as a "ridge," extended across the North Sea to the south of Scandinavia. The northern depression passed away to the North-Eastward, but the southern one grew more complex, and, passing over the east of France and western Germany, reached north Germany and the Baltic by Tuesday morning.

Wednesday brought the western anticyclonic system over Germany again, and pressure ranged from 30·2 ins. and more over that region and the Baltic to less than 29·9 ins. to the westward of the British Isles. Southerly and South-Easterly winds now appeared in the west, Easterly over the south of our Islands, and during the remainder of the week a depression of small intensity came over Spain and the west and north of France from south-west, while the anticyclone moved northwards, and the Easterly winds with cold rains were felt in the south and east of the British Isles.

On Friday a new anticyclone came over the south of Italy and the Balkan Peninsula from South-West, but soon merged in the northern system which had assumed immense proportions over Russia. The week closed with readings varying from between 30·3 ins. and more, and 30·0 ins. over central Russia and south-eastern Europe, and from 29·9 ins. and more off our own northern coasts to 29·7 ins. and less over the Bay of Biscay, into which region further minima were advancing from south-west, and causing wet weather over Spain, France, and the southern counties of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	19·7	- 3·1	25	- 4	BRIGHTON	18·5	-11·5	23	-14
STRATHPEFFER SPA	26·7	+ 7·0	33	+ 8	WORTHING	18·9	?	23	?
EDINBURGH	7·9	-13·0	10	-16	BOGNOR	13·2*	?	16*	?
MORPETH	22·9	?	29	?	WATERGATE (Emsworth)	14·1	?	17	?
NEWCASTLE-ON-TYNE	15·1	?	19	?	WESTBOURNE (Emsworth)	19·0*	-12.2	23*	-16
OSWALDKIRK (Yorkshire)	18·0	- 7·0	23	- 8	VENTNOR HOSPITAL	14·0	-18·5	17	-23
LOWESTOFT	15·8	?	20	?	SOUTHPORT	9·2	?	12	?
HOLLESLEY BAY	14·5	?	18	?	RHYL	13·4*	?	17*	?
SHEFFIELD	8·8	?	11	?	COLWYN BAY		?		?
WORKSOP	12·5	-10·0	15	-13	ABERDOVEY	23·9*	?	30*	?
THURCASTON (Leicestershire)	9·9	-12·6	12	-15	TENBY	22·0	- 9·5	27	-12
MARGATE	6·0	-21·2	7	-27	NEWQUAY	21·8	- 8·2	27	- 6
BROADSTAIRS	9·3	?	11	?	TORQUAY	11·9	-19·4	15	-23
EASTBOURNE	12·8	-17·7	16	-21	GUERNSEY	10·4*	-22·6	13*	-28

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 12.] *Third Series* WEEK ENDING SATURDAY, MARCH 23RD, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—*Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 68.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	50	23	44·5	32·7	38·4	1 below	7	− 4	33	+ 2	87	− 4	386	−33
1. SCOTLAND, EAST	53	28	43·4	33·7	38·5	1 below	4	−13	30	− 2	64	−58	457	−15
2. ENGLAND, N.E.	51	26	43·0	34·6	38·7	2 below	3	−16	26	− 2	74	−59	389	−16
3. ENGLAND, EAST	47	27	41·8	33·9	37·7	4 below	0	−25	30	0	79	−76	453	+ 6
4. MIDLAND COUNTIES	51	25	42·7	32·1	37·2	4 below	2	−24	34	+ 4	88	−88	461	+13
5. ENGLAND, SOUTH	50	28	42·8	34·7	38·6	4 below	2	−24	25	+ 2	111	−82	366	+23
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	51	25	45·3	33·1	39·0	2 below	9	− 8	32	+ 8	106	−31	335	− 7
7. ENGLAND, N.W.	47	27	43·6	33·3	38·3	4 below	4	−15	31	+ 8	89	−56	356	+26
8. ENGLAND, S.W.	51	24	44·4	33·5	38·8	4 below	7	−18	30	+11	147	−73	300	+35
9. IRELAND, NORTH	54	23	45·4	34·0	39·5	3 below	10	−13	29	+ 8	142	−49	266	−26
10. IRELAND, SOUTH	51	24	46·4	34·6	40·3	4 below	12	−16	28	+14	190	−82	251	+34
—CHANNEL ISLANDS	49	33	44·4	38·2	41·2	5 below	7	−24	14	+ 7	257	−49	132	+24

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 68.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	3	1	7 less	59	+ 3	9·8	− 3·4	30	+ 7	36	+ 9	152	− 2	20	− 0
1. SCOTLAND, EAST	4	2	3 less	46	+ 1	5·8	− 1·1	14	−11	16	−14	146	−42	19	− 6
2. ENGLAND, N.E.	4	2	2 less	50	+ 7	4·8	− 0·2	23	− 7	27	− 7	139	−42	19	− 6
3. ENGLAND, EAST	3	4	0 (average)	46	+ 1	4·6	− 0·3	16	−13	19	−16	169	−62	19	− 8
4. MIDLAND COUNTIES	2	4	0 (average)	44	+ 2	6·0	+ 0·2	13	−11	16	−13	130	−57	17	− 7
5. ENGLAND, SOUTH	3	6	1 more	42	− 1	5·5	− 0·8	11	−20	13	−24	180	−50	21	− 6
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	0	—	8 less	46	− 5	9·3	− 4·2	33	+ 7	40	+ 8	173	− 6	22	− 1
7. ENGLAND, N.W.	0	—	5 less	47	+ 1	5·6	− 1·8	29	+ 7	34	+ 9	175*	−17	21	− 2
8. ENGLAND, S.W.	2	6	0 (average)	42	− 7	8·6	− 1·2	18	−13	22	−15	214	−11	28	− 1
9. IRELAND, NORTH	0	—	5 less	53	− 1	7·0	− 0·9	35	+10	42	+12	175	−12	22	− 2
10. IRELAND, SOUTH	1	1	6 less	45	− 7	7·9	− 2·1	38	+ 9	46	+13	199	−20	25	− 2
— CHANNEL ISLANDS	5	10	5 more	57	+ 5	7·6	− 0·3	7	−33	8	−39	202	−92	21	−12†

† The corresponding value in last week's report should read "— 8."

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was cold and wintry in all parts of the kingdom. Sleet and hail showers were prevalent in the north and north-east during the earlier days of the week, and considerable quantities of rain or snow were experienced over eastern and southern England on the 19th or 20th. With these exceptions the weather was mostly dry, with a good deal of sunshine in Ireland and the west and north of Scotland.

Temperature was below the mean, the deficit ranging from 1° in Scotland N. and E. to 4° in nearly all parts of England, and to 5° in the Channel Islands. The highest of the maxima were registered on rather irregular dates, and ranged from 54° in Ireland N., and 53° in Scotland E., to 47° in England E. and N.W. The lowest of the minima, which were recorded towards the end of the week, ranged from 23° in Scotland N. and Ireland N. to 28° in Scotland E. and England S. and to 33° in the Channel Islands.

Rainfall was twice as much as the mean in the Channel Islands, and slightly exceeded it in England S., while in England E., the Midland Counties, and England S.W. the fall was just equal to the normal. In all other parts of the Kingdom there was a deficit; over Ireland and the north-west of Great Britain the weather was almost entirely rainless.

Bright Sunshine was in excess over Ireland and the extreme northern and north-western parts of Great Britain, but very deficient elsewhere. The percentage of the possible duration ranged from 46 to 42 in Ireland, from 40 to 16 in Scotland, and from 34 to 13 in England. In the Channel Islands the percentage was as low as 8.

Barometer and Wind.—At the commencement of the week an anticyclone was shown to the Northward of Scotland and depressions both to the South-Westward and Eastward of England. As the week progressed the anticyclone continued to increase slowly in intensity and to extend Southwards, while the appearance of further depressions over France and Germany caused the Easterly and North-Easterly winds to increase very greatly in strength over the United Kingdom, and eventually to blow with the force of a gale on our southern and eastern coasts. By the end of the period the anticyclone completely covered the United Kingdom and the strong winds and gales had subsided.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 67 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	34	43·3	34·6	38·8	− 0·1	4	26	7	0·29	− 0·33	*	*	*	*
	Stornoway	46	30	45·2	33·7	39·3	− 0·5	9	30	0	—	− 0·77	38·2	+13·0	45	+15
	Wick	48	32	44·6	34·0	39·1	− 0·6	7	28	4	0·37	− 0·08	*	*	*	*
	Lairg Ⓢ	46	26	44·5	30·8	37·4	− 0·3	7	39	4	0·15	− 0·55	*	*	*	*
	Glencarron Ⓢ	45	26	42·5	31·5	36·8	− 1·7	1	36	1	0·03	− 1·45	*	*	*	*
	Fort Augustus Ⓢ	50	23	45·2	32·2	38·5	− 1·5	9	35	2	0·13	− 0·55	30·7	+12·0	37	+15
	Fort William Ⓢ	48	27	46·0	32·0	38·8	− 2·0	11	36	0	—	− 1·27	45·4	+22·2	54	+27
1. SCOTLAND, E.	Nairn	47	31	43·1	34·0	38.4	− 1·5	3	28	4	0·26	− 0·11	*	*	*	*
	Aberdeen	45	33	43·9	34·7	39·2	− 1·4	5	26	4	0·09	− 0·41	20·2	− 8·3	24	−10
	Braemar Ⓢ	44	28	39·0	30·7	34·8	− 1·8	0	50	4	0·07	− 0·48	*	*	*	*
	Ochtertyre Ⓢ	53	28	48·7	32·7	40·5	− 0·2	19	36	1	0·01	− 0·59	*	*	*	*
	Leith	46	35	43·9	36·3	40·0	− 1·7	5	21	5	0·20	− 0·12	*	*	*	*
	Marchmont Ⓢ	45	30	41·9	34·0	37·8	− 1·8	0	29	6	0·40	− 0·14	13·8	−11·2	16	−13
2. ENGLAND, N.E	Alnwick Castle	45	33	43·5	35·6	39·4	− 0·8	4	22	4	0·15	− 0·37	*	*	*	*
	Durham	45	29	42·1	33·7	37·8	− 2·5	0	28	3	0·06	− 0·39	18·2	− 8·2	22	− 9
	Shields	45	33	43·4	35·4	39·3	− 1·6	4	23	5	0·12	− 0·26	*	*	*	*
	Scarborough Ⓜ	46	34	42·4	35·6	38·9	− 2·5	1	22	5	0·14	− 0·27	23·7	?	28	?
	Spurn Head	45	33	43·1	36·0	39·5	− 1·6	3	21	3	0·11	− 0·15	*	*	*	*
	Fulbeck (Lincolnshire)	51	26	43·2	31·1	37·0	− 4·3	3	38	5	0·58	+ 0·28	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	43	32	41·9	34·0	37·8	− 3·9	0	29	5	0·67	+ 0·32	18·8	− 8·7	22	−11
	Yarmouth	42	34	40·6	35·4	37·9	− 3·0	0	29	3	0·21	− 0·17	*	*	*	*
	Geldeston	42	32	41·4	34·9	38·0	− 3·8	0	28	3	0·29	− 0·06	13·7	−16·3	16	−20
	Cambridge	47	27	44·1	31·3	37·5	− 4·3	6	38	2	0·28	− 0·04	15·3	−14·2	18	−18
	Felixstowe	42	32	40·9	35·6	38·2	− 3·7	0	27	2	0·27	?	17·3†	?†	21†	?†
	Rothamsted	45	28	42·0	32·3	37·0	− 4·5	0	35	3	0·42	+ 0·04	17·2	− 9·9	20	−13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	26	44·7	31·4	37·9	− 3·9	8	38	3	0·22	− 0·13	*	*	*	*
	Loughborough	44	25	41·9	31·4	36·5	− 5·8	0	39	4	0·57	+ 0·24	*	*	*	*
	Colly Weston (Stamford)	51	29	43·4	31·7	37·4	− 3·9	4	36	4	0·66	?	*	*	*	*
	Cheadle Ⓜ	43	29	41·4	31·6	36·4	− 4·3	0	39	1	0·14	− 0·34	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	44	29	40·5	32·4	36·3	− 5·0	0	40	1	0·21	− 0·15	8·3	?	10	?
	Churchstoke Ⓜ	46	25	41·8	31·3	36·4	− 4·4	0	39	1	0·63	+ 0·19	15·6	−11·9	19	−14
	Hereford (Belmont) Ⓜ	49	26	43·0	33·1	37·9	− 4·7	3	31	2	0·22	− 0·33	*	*	*	*
	Cirencester	50	28	44·0	32·7	38·2	− 2·8	6	33	1	0·20	− 0·24	16·2	−11·8	19	−14
	Oxford	50	29	43·3	33·0	38·0	− 4·5	4	31	1	0·27	− 0·07	14·0	−13·5	17	−16
5. ENGLAND, S.	London	49	32	43·9	35·4	39·5	− 3·6	5	23	2	0·47	+ 0·14	7·7†	−12·8†	9†	−15†
	Swarraton (Alresford) Ⓜ	50	28	42·7	33·6	38·0	− 3·3	2	29	2	0·37	− 0·08	*	*	*	*
	Dungeness	46	35	42·4	37·0	39·6	− 2·4	1	17	3	0·19	− 0·11	7·1	?	8	?
	Hastings (St. Leonards)	46	33	42·1	35·4	38·7	− 3·9	0	23	2	0·29	− 0·16	10·8	−22·2	13	− 26
	Southampton	49	30	44·6	34·7	39·5	− 4·3	7	26	2	0·18	− 0·27	11·2	−19·4	13	− 23
	Portland Bill	45	32	42·6	34·6	38·5	− 5·7	2	26	5	1·40	?	*	*	*	*
	Shaftesbury Ⓜ	47	28	41·1	32·1	36·5	− 4·8	0	39	3	0·96	+ 0·48	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	51	28	47·6	32·2	39·7	− 2·0	16	37	0	—	− 1·31	*	*	*	*
	Glasgow	46	33	43·6	35·5	39·4	− 1·4	4	23	0	—	− 0·53	18·5	− 2·4	22	− 3
	Glenlee Ⓢ	48	26	44·8	31·2	37·8	− 2·7	8	38	0	—	− 0·85	*	*	*	*
	Douglas (Isle of Man)	47	25	45·0	33·3	39·0	− 2·9	8	32	0	—	− 0·59	48·0	+16·1	57	+19
7. ENGLAND, N.W.	Newton Reigny	45	27	42·9	32·3	37·4	− 2·4	3	33	3	0·04	?	17·0	?	20	?
	Stonyhurst	44	30	42·8	32·9	37·7	− 3·1	2	31	0	—	− 0·73	33·4	+ 7·8	40	+10
	Blackpool Ⓜ	47	27	46·1	31·4	38·5	− 3·1	11	38	0	—	− 0·45	29·3	+ 3·8	35	+ 5
	Manchester (Prestwich)	45	30	42·9	32·9	37·8	− 3·4	3	32	0	—	− 0·54	16·9	?	20	?
	Liverpool Obsy. (Bidston)	45	31	43·6	33·4	38·4	− 4·0	4	31	0	—	− 0·36	15·0	?	18	?
	Chester (Hawarden Bridge)	46	?	43·7	?	?	?	?	?	0	—	?	*	*	*	*
	Llandudno Ⓜ	45	29	43·4	35·0	39·1	− 4·3	4	25	0	—	− 0·41	34·4	+ 8·2	41	+10
	Holyhead	46	32	43·0	35·1	38·9	− 4·5	3	24	0	—	− 0·50	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	26	44·6	32·1	38·2	− 4·0	7	35	2	0·17	− 0·60	*	*	*	*
	Pembroke	47	32	44·9	34·0	39·3	− 3·8	8	29	2	0·27	− 0·23	27·0	− 5·0	32	− 6
	Clifton	51	29	49·7	34·3	41·8	− 1·2	22	31	1	0·23	− 0·27	*	*	*	*
	Bath	51	28	44·6	34·0	39·1	− 3·4	7	28	2	0·21	?	12·2	?	15	?
	Arlington (N. Devon)	49	26	42·4	31·6	36·8	− 4·6	1	35	2	0·83	+ 0·07	*	*	*	*
	Cullompton Ⓜ	48	24	43·3	32·1	37·5	− 6·4	4	34	2	0·95	+ 0·42	14·3	−14·6	18	−17
	Falmouth	47	32	42·4	35·3	38·8	− 5·8	1	23	3	1·35	+ 0·65	17·5	−15·0	21	−18
	Plymouth	48	30	43·4	34·3	38·7	− 5·3	4	27	2	0·69	+ 0·14	17·2	−14·8	20	−18
9. IRELAND, N.	Malin Head	45	34	43·6	37·3	40·4	− 2·3	4	17	0	—	?	*	*	*	*
	Londonderry	54	29	46·6	32·4	39·3	− 3·5	13	35	0	—	− 0·61	*	*	*	*
	Edenfel (Omagh)	49	26	45·4	30·7	37·8	− 3·0	10	40	0	—	− 0·55	*	*	*	*
	Blacksod Point	49	32	45·9	36·1	40·9	− 3·2	11	23	0	—	− 0·62	*	*	*	*
	Markree Castle	50	23	47·0	31·7	39·1	− 3·2	14	38	0	—	− 0·62	43·5	+18·5	52	+22
	Armagh	47	25	44·9	32·6	38·6	− 2·7	8	34	1	0·01	− 0·44	25·8	+ 1·0	31	+ 2
	Donaghadee	47	35	44·3	37·3	40·7	− 1·8	6	17	0	—	− 0·42	*	*	*	*
10. IRELAND, S.	Dublin	48	30	45·8	37·1	41·3	− 2·6	11	19	1	0·01	− 0·43	36·4	+ 7·1	43	+ 8
	Parsonstown	50	25	47·3	32·4	39·6	− 3·0	15	36	0	—	− 0·50	39·3	+13·6	47	+16
	Kilkenny	48	24	44·7	33·7	39·0	− 4·5	8	30	0	—	− 0·48	*	*	*	*
	Roche's Point	48	35	44·9	37·1	40·9	− 3·8	8	18	1	0·15	− 0·57	*	*	*	*
	Valencia	51	33	47·9	36·0	41·8	− 3·9	17	24	1	0·02	− 0·84	39·4	+ 8·3	47	+10
	Killarney	51	28	47·5	32·9	40·0	− 4·8	15	34	1	0·05	− 0·83	*	*	*	*
	Foynes	49	26	46·6	33·0	39·6	− 4·2	13	33	1	0·19	− 0·36	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	49	33	45·1	37·0	40·9	− 5·2	9	19	5	1·24	+ 0·74	13·7	?	16	?
	Jersey	48	37	43·7	39·4	41·5	− 3·7	5	10	5	0·80	+ 0·30	6·2	−29·8	7	−36

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

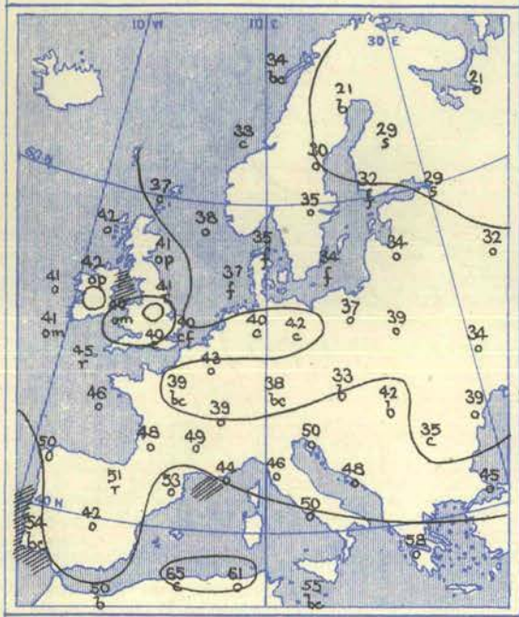
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

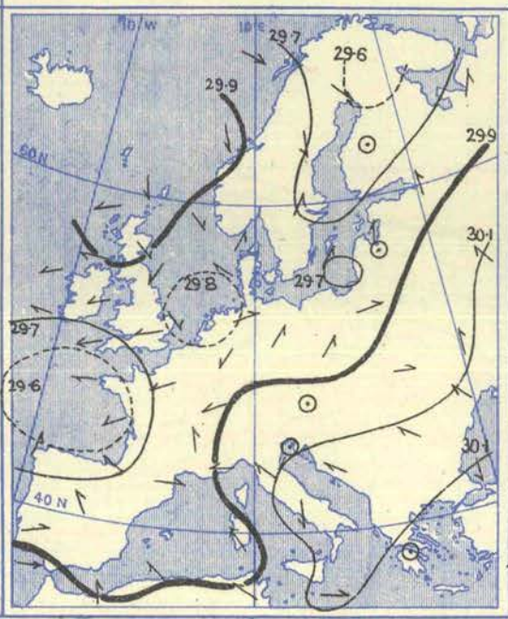
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 17th March.

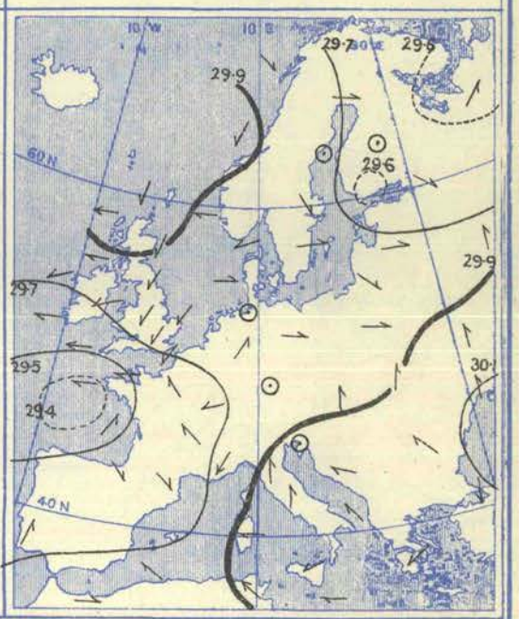
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m



Weather in morning cloudy and unsettled over our Islands and the Continent generally, with fog in many parts of England and rain on our northeast coasts as well as at Scilly. Rain falling also in the western parts of France and snow at Karlstad, Kuopio and St. Petersburg; fog very prevalent over Denmark, the Baltic and the Gulf of Finland. Fine in Austria and in the north of Scandinavia. Showers falling later in many parts of the United Kingdom and more decided rain in France, especially in the south.

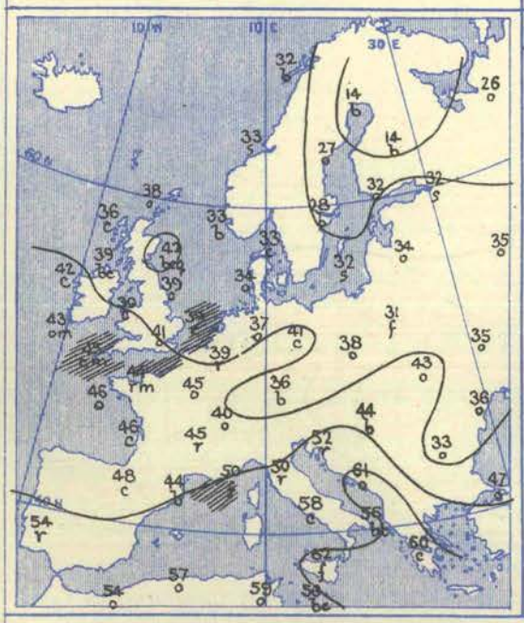
Temperature fallen over central England and also in the Netherlands and many parts of Italy and Austria. Morning readings highest 65° at Algiers, 61° at La Calle and 58° at Cagliari and Patras; above 50° at most of the Mediterranean and Spanish coast stations. Lowest 21° at Archangel and Haparanda and 26° at Uleaborg; below the freezing point in many parts of northern Europe and also over central England. Remaining below 45° all day at many of our own northern and central stations but exceeding that point in the south and reaching 50° at Oxford. Exceeding 60 in many parts of southern Europe, the highest reading reported being 68° at Brindisi.

Wind light to moderate from the Eastward over the greater part of our Islands and France but Northerly in the east of England and Southerly in the south of France; Westerly or South-Westerley over the Spanish Peninsula. Northerly or North-Westerly in the west and north of Scandinavia; South-Westerly over the Baltic and the south of Sweden; Southerly in Russia; variable in Austria, Italy and Greece. Subsequently backing to the North-Eastward in many parts of the United Kingdom, shifting to the Southward or South-Westward in the west of France.

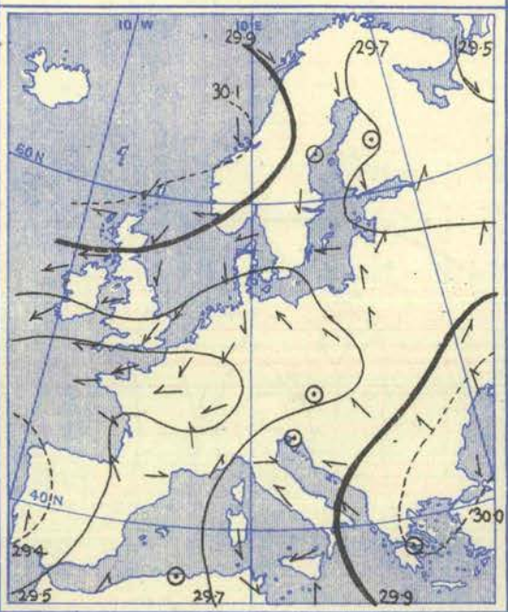
Barometer highest 30·2 ins. and upwards in an anticyclone over the south of Russia; 29·9 ins. and upwards in another system over the north of Scotland and the extreme west of Norway. Lowest 29·6 ins. and less in two depressions, one lying over Lapland and the other over the Bay of Biscay; 29·8 ins. and less in a shallow disturbance over the Netherlands and the southern part of the North Sea. Depression over Lapland subsequently moving eastwards; disturbance over Bay of Biscay becoming somewhat deeper.

Monday, 18th March.

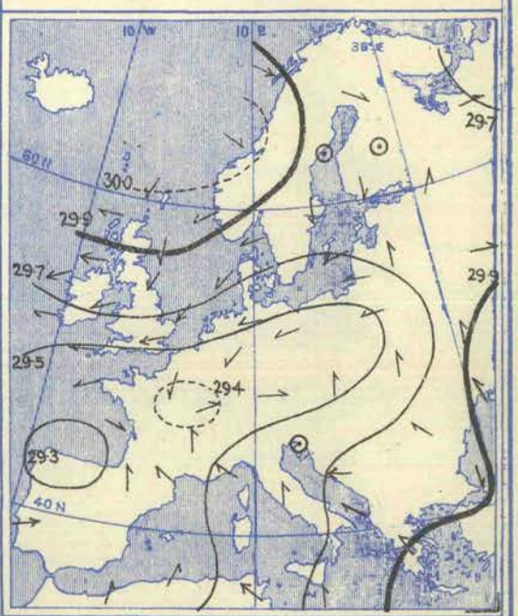
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Lapland, some parts of Finland, and several parts of our own northern and north-western districts, dull in almost all other places, rainy at several French stations; at Florence and Trieste, snow at Wisby, hail at Wick. Large quantities of rain later in the south of France, at Trieste, and at Warsaw, smaller quantities in various parts of France, north Germany, and the south of our Islands.

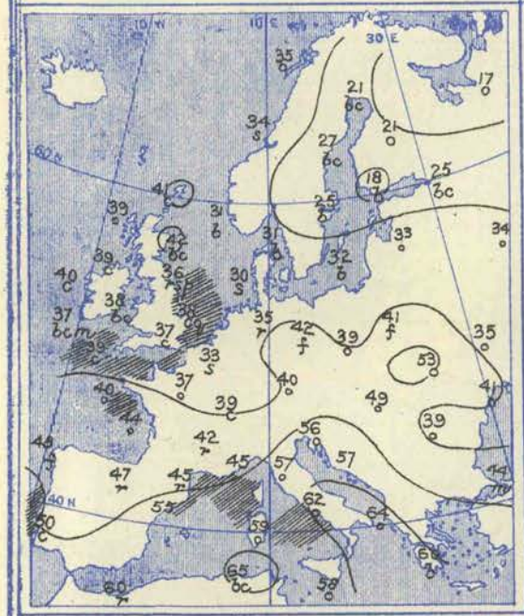
Temperature fallen decidedly over Finland, risen somewhat over Austria, the Adriatic, and Italy. Morning readings highest, 62° at Palermo, 59° at Rome, Tunis, and La Calle, 57° at Algiers, 54° at Barcelona and Lisbon; 45° at Frankfürt and Scilly, 43° at Valencia. Lowest, 7° Fahr. at Uleaborg, 14° at Haparanda and Kuopio, 32° at Bodö and St. Petersburg, 35° at Moscow. Not touching 50° later in any part of our Islands, but rising to 57° in the west of France, 62° at Perpignan, 63° at Hermanstadt and Lesina, 77° at Biskra (Algeria).

Wind South-Westerly or Southerly over southern and south-eastern Europe as a whole and blowing very strongly at Rome; Easterly to Northerly over the north-western and northern countries, and beginning to blow strongly over several of the southern parts of the British Islands, South-Easterly over Germany. Increasing in force at Spurn Head, Yarmouth, and Jersey later, and blowing strongly from West-South-West at Lisbon.

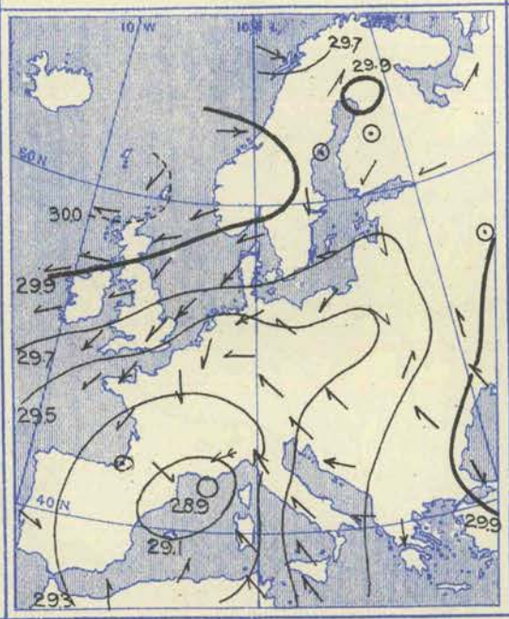
Barometer highest, (1) 30·0 ins. and more over south-eastern Europe, (2) 30·01 at Christiansund, and exceeding 29·9 ins. all over Norway and the northern half of Scotland. Lowest, (1) 29·4 ins. and less of Portugal and adjacent parts of the Atlantic, and below 29·5 ins. in a shallow secondary over central France; (2) 29·5 ins. and less to 29·6 ins. over the north of Russia. Further disturbances (not deep) later, and reaching the Bay of Biscay from south west. Barometer rising in northern Russia.

Tuesday, 19th March.

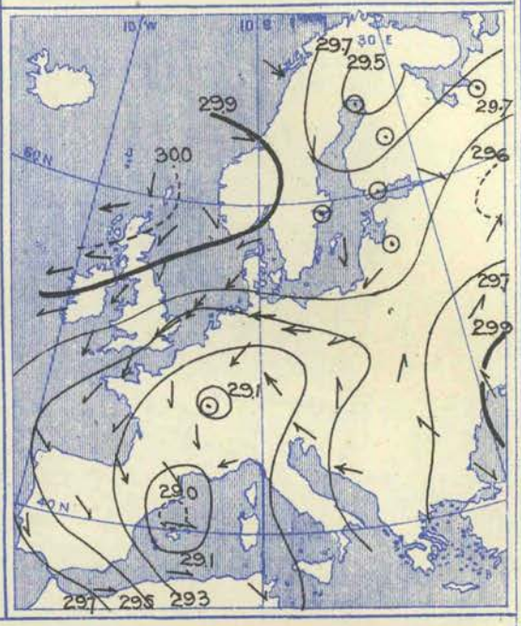
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather, in morning, cloudy or dull over western Europe generally, but fine over the southern parts of Scandinavia and the Gulf of Finland. Snow falling at Brussels, in some parts of Denmark, and at Christiansund; sleet showers on our own north-east coasts, and rain in the south of France and Algeria as well as in north Germany. Fog prevailing in southern Russia and at some of the German stations. Rain and sleet very general over the south and east of Great Britain later, and very heavy falls of rain in the south of France.

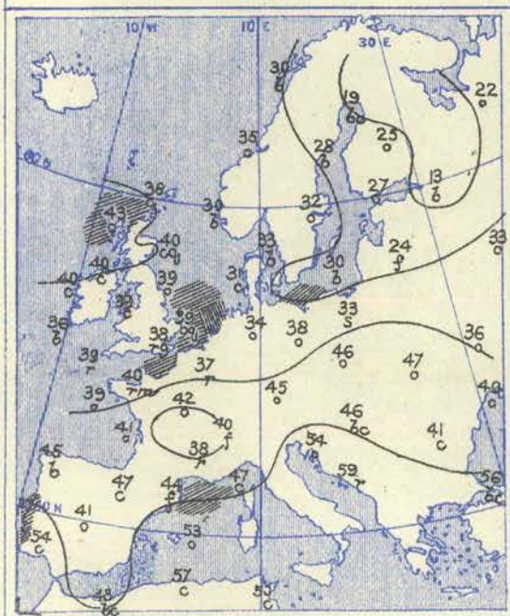
Temperature risen over Austria-Hungary, fallen over our Islands and France. Morning readings, highest 65° at La Calle, 64° at Brindisi, 62° at Naples and Tunis, and 60° at Oran and Patras; above 50° over the Mediterranean generally Lowest, 17° at Archangel and Helsingfors, 19° at Uleaborg, and below 32° over northern Europe generally. Lowest in the United Kingdom, 32° at Penrith, 34° at Loughborough, and 35° at Liverpool and Nairn; below 40° at nearly all our own stations and over the greater part of France. Rising to about 45° on our west and south-west coasts later, to little more than 50° over France, to 60° over central Europe, to 70° at La Calle and Tunis, and to 74° at Hermanstadt.

Wind, North-Easterly over the British Islands, France, Denmark, and the Baltic; and blowing strongly on our south and east coasts; Northerly over the Spanish Peninsula; South-Westerly in Algeria, and strong from the South-Eastward over Italy and the Adriatic. Strong to a gale from the Eastward in the Riviera. Light from the Southward over southern Russia, and light and variable over the north of that country and the east of Scandinavia; but strong from the Westward in the north of Norway. Very little change later but the South-Westerly wind in Algeria increasing in force.

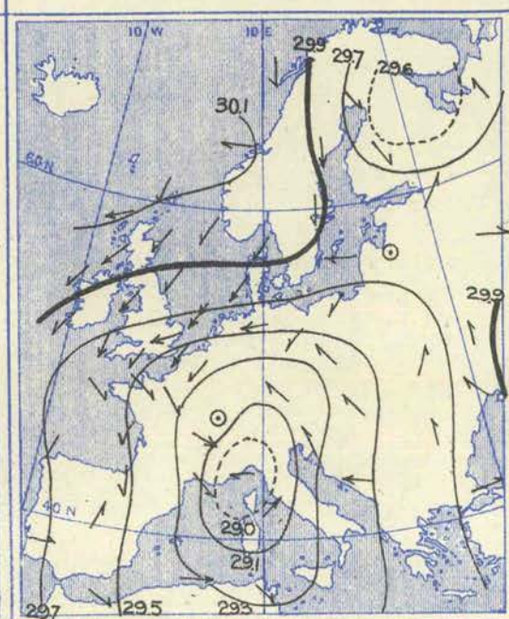
Barometer, highest 30·0 ins. to the northward of Scotland, and (2) in an area over and to the northward of the Sea of Azov. Lowest, 28·9 ins. and less in a deep depression over the Gulf of Lions; 29·7 ins. and less in another system to the north-westward of Norway. No great change in the general distribution later, but northern depression moving eastwards. Barometer rising quickly over the western extremity of the Mediterranean, and the gradients in that region increasing greatly in steepness.

Wednesday, 20th March.

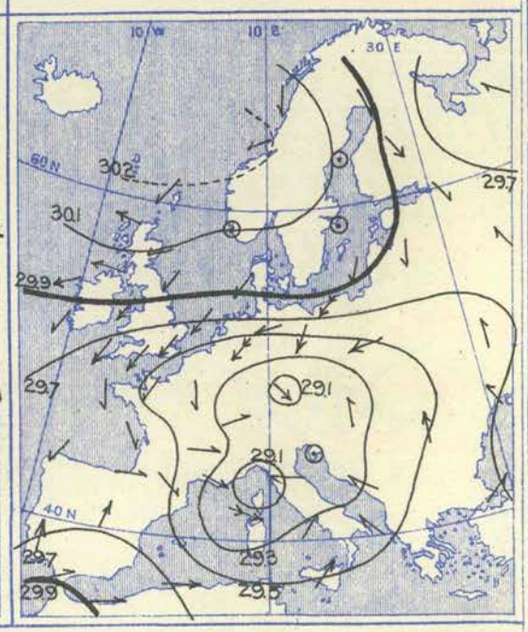
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather, in morning, fine and bright in many parts of Scandinavia, cloudy or dull in nearly all other regions, with snow in north Germany, and rain over southern and south-western England, and northern and central France, as well as at Brussels. Heavy rain later over the south of England, many parts of France and Italy, and at some of the Austrian and German stations; some snow at St. Petersburg.

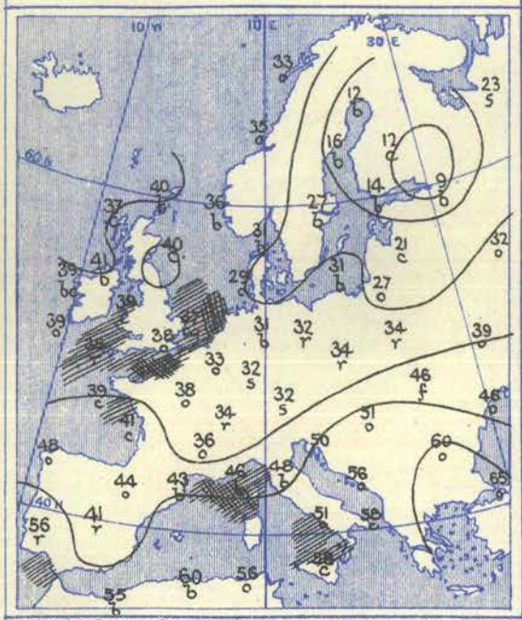
Temperature risen in most parts of central Europe, but changed irregularly elsewhere. Morning readings, highest 59° at Lesina, 57° at Oran and Algiers, 56° at Constantinople, and 54° at Lisbon and Sfax. Lowest, 13° at St. Petersburg, 15° at Uleaborg, 19° Haparanda, and about the freezing point over Scandinavia, Denmark and Russia generally. Lowest in our Islands, 35° at Parsonstown, 36° at several other stations, and below 40° in nearly all localities. Rising later to 72° at Hermanstadt, 68° at Cracow and Palermo, and 64° on the Algerian coast. Maxima in France nearly all below 50°, and very few of those in our Islands above 45°, at Portland Bill the thermometer did not rise above 39°.

Wind, Northerly over Scandinavia, North-Easterly over Denmark, Germany, and the United Kingdom; Westerly or North-Westerly over the greater part of France and Algeria, and Southerly over Hungary and southern Russia. In the extreme north of Russia it varied from North-West and West in Finland to South-East at Archangel. Still strong to a gale over southern and eastern England, as well as in the Netherlands and north Germany; light or moderate in most other regions; but strong over the western part of the Mediterranean and in the Gulf of Lions. No important modification taking place later.

Barometer in morning, highest, 30·1 ins. and upwards to the northward of Scotland. Lowest (1) 29·0 ins. and less in the centre of a complex and deep depression over the Gulf of Genoa and (2) 29·6 ins. and less in a shallow depression over the extreme north of Russia. Both disturbances moving eastwards later, and the anticyclone in the north extending slowly southwards. Another low pressure system appearing over Spain, and the barometer falling slightly at some of our south-western stations also.

Thursday, 21st March.

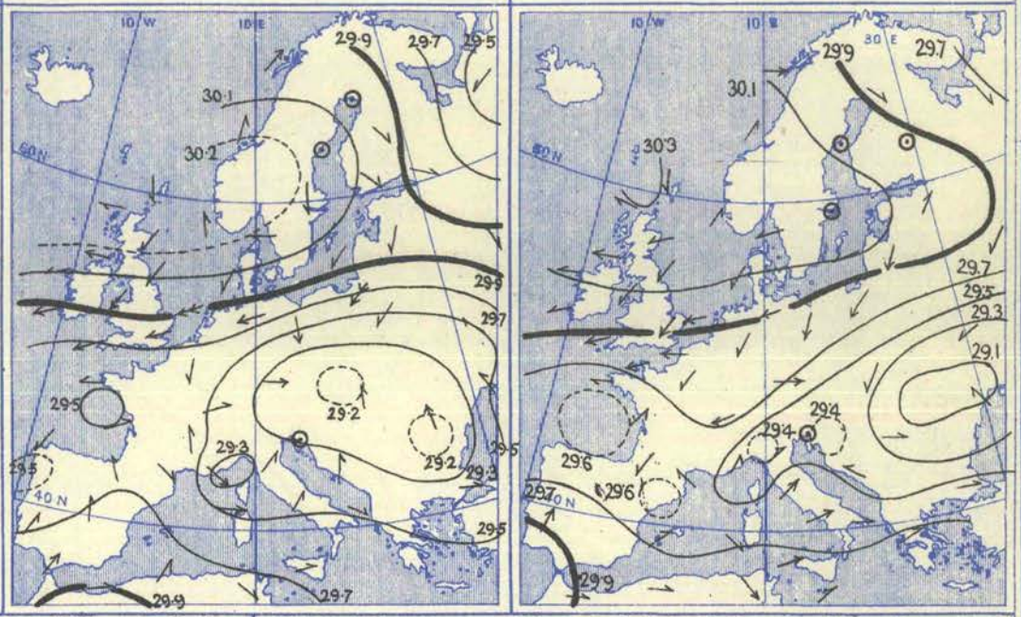
Temperature and Weather. 8 a.m.



Weather in morning fine on our own western coasts, but cloudy or dull in nearly all other parts of western, central, and southern Europe, with rain or snow at most of the English Channel stations, as well as in Germany and the east of France; rain falling also at Lisbon and Madrid. Fine over the greater part of northern Europe, but snow falling at Archangel. Some improvement taking place later over the English Channel, but slight showers falling on the north-east coasts of Great Britain. Heavy rain experienced in some parts of Poland and Austria—as much as 1·6 in. at Munich.

Temperature risen slightly in our Islands, fallen in most of the continental countries. Morning readings, highest 65° at Constantinople, 60° at Algiers, and 58° at San Fernando, Brindisi, and Palermo; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 9° at St. Petersburg, 10° at Uleaborg, and 12° at Haparanda and Kuopio; below the freezing point over northern Europe generally. Daily maxima, below 45° in most parts of Great Britain, but thermometer exceeding 45° in Ireland, and reaching 51° at Valencia. Exceeding 60° in many parts of southern Europe; the highest readings reported being 75° at Constantinople and 69° at Palermo and Athens.

Barometer and Wind. 8 a.m. and 6 p.m.

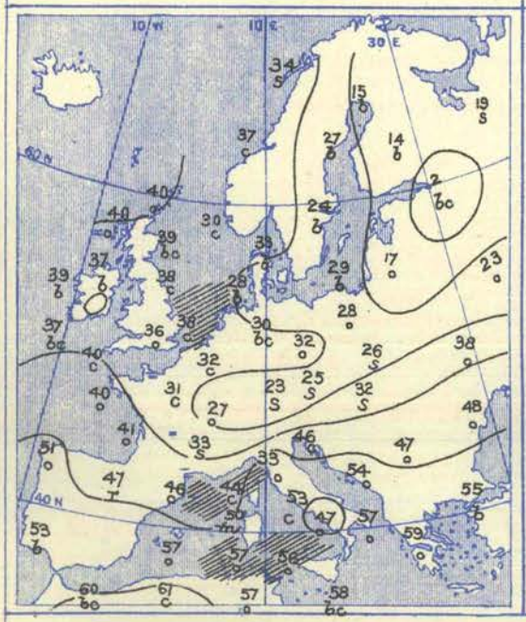


Wind North-Easterly over our Islands, the Netherlands, Denmark and the northern parts of France and Germany; strong to a gale over the southern parts of England and also in north Germany. South-Westerly in the west of Norway, North-Westerly over northern Russia and the south of Scandinavia; variable in the south of France, South-Westerly or Westerly over Spain and Italy; Southerly and South-Easterly in Austria and the south of Russia. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone over Scotland and the south of Norway. Lowest, 29·2 ins. and less in three depressions, one lying over the Gulf of Genoa, the others over Austria; 29·5 ins. and less in two shallow systems, lying respectively off the Portuguese coasts and over the northern part of the bay of Biscay, as well as in another system over the north of Russia. Anticyclone subsequently spreading southwards; depressions over Austria moving eastwards and amalgamating.

Friday, 22nd March.

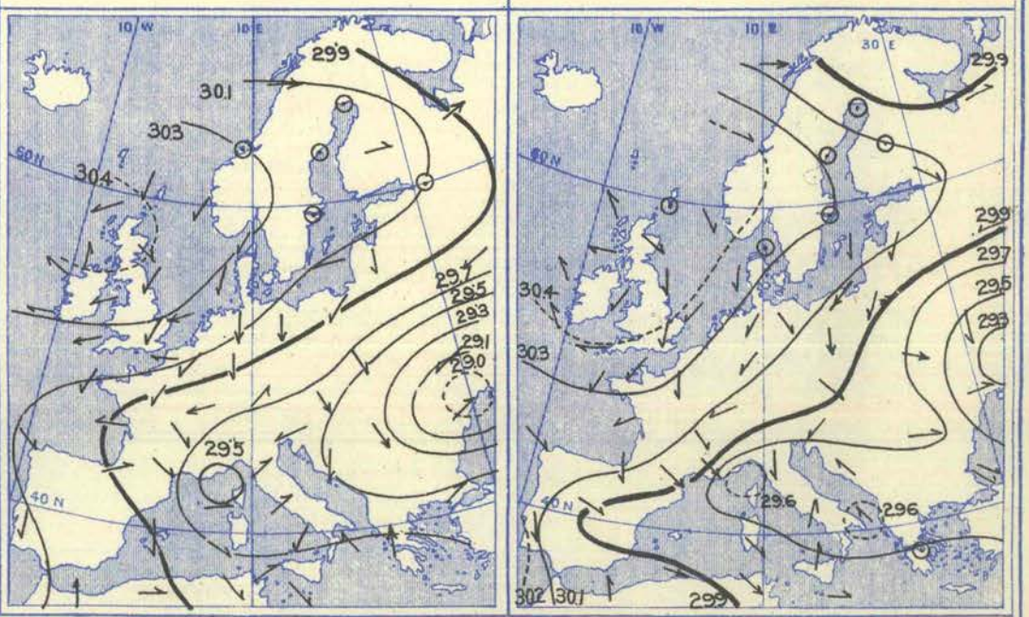
Temperature and Weather. 8 a.m.



Weather in morning fair or fine over western and northern Europe generally. Still dull and unsettled over the central southern and eastern countries with rain at Biarritz and Leghorn and snow in many parts of Poland and Austria, as well as at Lyons and Archangel. Slight showers falling later at some of our own northern and eastern stations and more decided rains in Austria and the south of Russia.

Temperature fallen in most countries—rapidly in Austria, but risen over the northern parts of Scandinavia. Morning readings highest 61° at Algiers, 60° at Oran, 59° at Patras and 58° at Athens and Malta; above 55° at most of the Mediterranean stations. Lowest 2° at St. Petersburg, 12° at Hango and Helsingfors and 14 at Kuopio; below the freezing point over northern and central Europe generally and also over central Ireland. Daily maxima below 45° in most parts of Great Britain, but thermometer exceeding 45° in Ireland and reaching 50° at Parsonstown. Exceeding 60° in several parts of southern Europe; reaching 68° at Palermo and 73° at Constantinople

Barometer and Wind. 8 a.m. and 6 p.m.

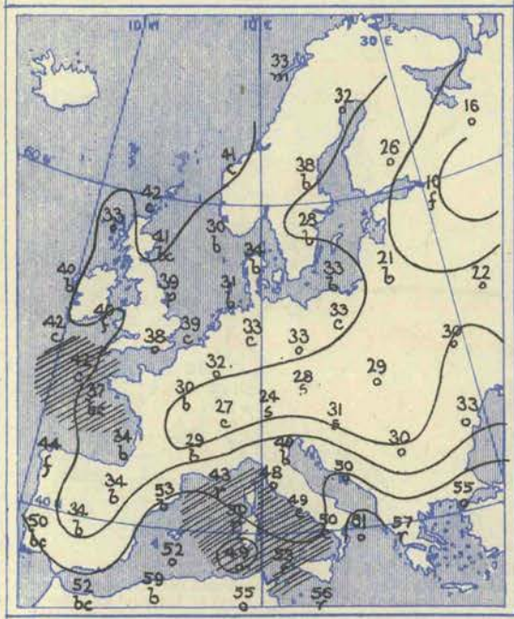


Wind North-Easterly over England and the western parts of the Continent generally. Light or moderate in force in most places, but fresh on some parts of our own south and east coasts. Calm or Westerly over the northern parts of Russia and Scandinavia; Northerly in Germany; North-Westerly in Austria and also in the South of France. South-Westerly in Italy. No decided change occurring during day.

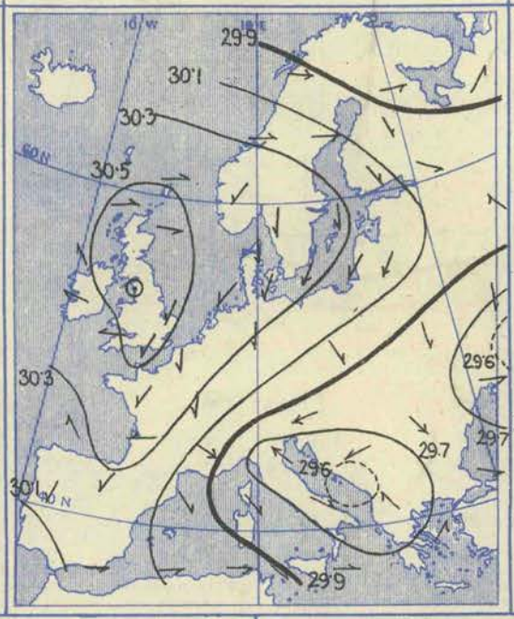
Barometer highest 30·4 ins. and upwards in Scotland; 30·2 ins. and upwards in an anticyclone covering the greater part of north-western Europe. Lowest 29·0 ins. and less in a deep depression with its centre over the extreme south of Russia, 29·5 ins. and less in a shallow disturbance over the Gulf of Genoa. No important change occurring during day.

Saturday, 23rd March.

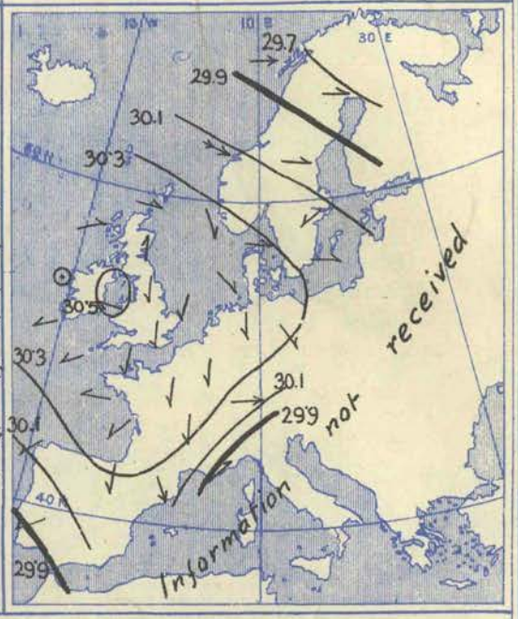
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over the United Kingdom as a whole with fog or mist over the St. George's Channel and showers at one or two of the English stations. Fine over the western and northern parts of the Continent but still dull and unsettled in most of the central and southern countries, with rain at several of the Mediterranean stations and at Kharkov; snow falling in southern and eastern Germany. Sky clearing later over the northern parts of our Islands generally but becoming overcast in the west of Norway.

Temperature risen over our Islands and northern and central Europe, fallen over France and most of the southern countries. Morning reading highest, 61° at Brindisi, 59° at Algiers and 57° at Athens and Patras; above 50° at most of the Mediterranean stations. Lowest 10° at St. Petersburg, 16° at Archangel and 22° at Helsingfors and Moscow; below the freezing point over northern and central Europe generally and also over central Ireland. Remaining below 45° all day over the greater part of England but exceeding that point in Ireland and Scotland and reaching 49° at Parsonstown and Valencia; exceeding 50° in the west and south of France. Frost occurring over our Islands at night.

Wind light to moderate from the Northward over England and the western parts of th Continent but from the South-Eastward in Ireland, and from the Westward over Scotland and the northern parts of Scandinavia; light from the North-Westward in Finland. North-Westerly also in Austria, Eastern Germany and the extreme South of France; variable in Italy. Subsequently backing to the South-Westward in the west of Norway, and increasing to a gale at Christiansund.

Barometer highest, 30·5 ins. and upwards in the central area of an anticyclone lying directly over our Islands, the borders of the system extending over nearly the whole of North-Western Europe. Lowest, 29·4 ins. and less in a well marked depression over the South of Russia; 29·6 ins. and less in two other disturbances lying respectively over the Gulf of Genoa and over the southern part of the Adriatic, 29·9 ins. and less in the extreme north of Europe. Anticyclone giving way gradually during day and moving south-westwards; new depression approaching the Norwegian coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that or 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week an anticyclone lay over the south of Russia, and another system of slight intensity off our own extreme northern coasts. Shallow depressions were found respectively over Lapland, the southern part of the North Sea, and the Bay of Biscay, and the winds consequently varied a good deal in direction, the prevailing current in these Islands being North-Easterly or Easterly.

The anticyclone over Russia soon dispersed, however, while the high pressure system to the northward of our Islands increased in intensity and spread eastwards over Scandinavia, the weather over northern Europe for the remainder of the week being mostly fair and dry. In all the central and southern countries, and in our own southern districts, also, the conditions were rendered very unsettled by numerous depressions, some of which advanced north-eastwards over Spain, the Bay of Biscay, and France, while others were formed over Austria, Italy and the Mediterranean. Of these disturbances the former series showed a tendency to disperse during their progress north-eastwards; the southern depressions, however, moved chiefly in an easterly direction, and in some cases increased considerably in depth. Frequent, and in many instances heavy, falls of rain occurred over nearly the whole of southern Europe, and heavy snow in Austria and Germany, the wind over the Mediterranean often blowing strongly from various directions. On our own south and east coasts a moderate to strong gale from the north-eastward was experienced between the 19th and 21st, with heavy rain at some of the English Channel stations. After the 21st the northern anticyclone spread southwards, and at the close of the week its central area lay directly over the United Kingdom; where the weather became temporarily fair and dry.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	18·9	- 6·6	23	- 7	BRIGHTON	15·8	-16·2	19	-19
STRATHPEFFER SPA	17·0	- 4·4	20	- 5	WORTHING	14·9	?	18	?
EDINBURGH	7·2	-15·3	9	-18	BOGNOR	13·2*	?	16*	?
MORPETH	28·8	?	34	?	WATERGATE (Emsworth)	12·8	?	15	?
NEWCASTLE-ON-TYNE	20·8	?	25	?	WESTBOURNE (Emsworth)	16·3*	-17.5	19*	-21
OSWALDKIRK (Yorkshire)	21·1	- 5·9	25	- 7	VENTNOR HOSPITAL	9·8	-25·2	12	-30
LOWESTOFT	15·2	?	18	?	SOUTHPORT	31·9	?	38	?
HOLLESLEY BAY	14·1	?	17	?	RHYL	*	?	*	?
SHEFFIELD	9·4	?	11	?	COLWYN BAY	36·0	?	43	?
WORKSOP	15·4	- 9·7	18	-11	ABERDOVEY	44·2*	?	53*	?
THURCASTON (Leicestershire)	13·9	-10·2	17	-11	TENBY				
MARGATE	6·6	-22·6	8	-27	NEWQUAY				
BROADSTAIRS	3·7	?	4	?	TORQUAY	19·3	-14·5	23	-17
EASTBOURNE	8·0	-24·6	10	-29	GUERNSEY	0·6*	-34·6	1*	-41

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 13.] *Third Series* WEEK ENDING SATURDAY, MARCH 30TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 74.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	7	37·2	23·8	30·3	10 below	0	−16	82	+55	87	−20	468	+22
	1. SCOTLAND, EAST	50	1	38·5	23·5	30·8	10 below	0	−21	78	+49	64	−79	535	+34
	2. ENGLAND, N.E.	51	21	40·5	27·0	33·6	8 below	0	−22	59	+34	74	−81	448	+18
	3. ENGLAND, EAST	49	21	41·3	27·8	34·4	8 below	0	−29	53	+28	79	−105	506	+34
	4. MIDLAND COUNTIES	53	18	41·8	26·7	34·0	9 below	0	−30	56	+31	88	−118	517	+44
	5. ENGLAND, SOUTH	49	18	41·3	28·3	34·6	9 below	0	−31	52	+32	111	−113	418	+55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	13	40·8	25·9	33·1	9 below	0	−22	62	+41	106	−53	397	+34
	7. ENGLAND, N.W.	49	18	41·1	27·8	34·3	9 below	0	−23	54	+34	89	−79	410	+60
	8. ENGLAND, S.W.	53	17	43·0	28·5	35·6	9 below	3	−26	47	+31	150	−99	347	+66
	9. IRELAND, NORTH	49	19	41·4	28·9	34·9	8 below	0	−27	50	+33	142	−76	316	+ 7
	10. IRELAND, SOUTH	51	20	44·5	30·2	37·2	8 below	7	−25	42	+30	197	−107	293	+64
	—CHANNEL ISLANDS—	53	31	45·9	34·5	40·0	7 below	11	−24	28	+22	268	−73	160	+46

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 74.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	1 less	64	+ 3	10·5	− 3·5	32	+ 6	37	+ 8	184	+ 5	22	+ 1
	1. SCOTLAND, EAST	6	7	2 more	52	+ 3	6·5	− 0·9	29	+ 2	33	+ 2	175	−40	20	− 5
	2. ENGLAND, N.E.	6	7	3 more	56	+ 9	5·5	+ 0·1	41	+15	47	+17	180	−27	22	− 3
	3. ENGLAND, EAST	6	5	2 more	52	+ 4	5·1	− 0·2	35	+ 3	41	+ 5	204	−58	21	− 6
	4. MIDLAND COUNTIES	5	7	3 more	49	+ 4	6·7	+ 0·5	34	+ 8	39	+10	164	−49	20	− 5
	5. ENGLAND, SOUTH	3	7	3 more	45	− 1	6·2	− 0·5	30	− 3	34	− 4	210	−54	23	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	1 more	50	− 5	10·1	− 4·2	40	+11	45	+12	213	+ 5	25	+ 1
	7. ENGLAND, N.W.	4	11	7 more	51	+ 1	6·7	− 1·2	42	+12	48	+14	218*	− 5	24	0
	8. ENGLAND, S.W.	5	7	1 more	47	− 6	9·3	− 1·1	38	+ 4	44	+ 5	253*	− 5	29	− 1
	9. IRELAND, NORTH	6	10	5 more	59	+ 1	8·0	− 0·4	32	+ 5	37	+ 6	207	− 8	24	0
	10. IRELAND, SOUTH	5	8	2 more	50	− 5	8·7	− 1·9	39	+ 8	45	+ 9	238	−12	27	− 1
	— CHANNEL ISLANDS—	6	4	1 less	63	+ 7	8·0	− 0·3	39	+ 3	45	+ 4	241	−89	24	−10

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather continued extremely cold and wintry for the time of year until quite the end of the week, when the conditions became somewhat milder. Snow and sleet were very prevalent, but were not heavy, except in the east of England on Tuesday and over the north-west of England on Friday. Thunder and lightning were experienced over the east of England on Thursday and Saturday.

Temperature was again much below the mean, the deficit ranging from 7° in the Channel Islands to 9° in most other districts, and to 10° in Scotland N. and E. The daily maxima were mostly below 40°, but at the commencement and also at the end of the period they were higher, the extreme values ranging from 53° in the Midland Counties, England S.W., and the Channel Islands to 45° in Scotland N. The lowest of the minima were recorded on the 29th, when the sheltered thermometer fell to 1° Fahr. in Scotland E. (at Braemar) to 7° in Scotland N. (at Lairg), and to 13° in Scotland W. In most other parts of the Kingdom the minima ranged from 17° in England S.W. to 20° in Ireland S., and to 21° in England E. and N.E., but in the Channel Islands the lowest reading was 31°. In several localities the present week was colder than any during the past winter. This was the case at Dublin, Edenfel, Glasgow, Aberdeen and Plymouth.

Rainfall was rather less than the mean in Scotland N. and also in the Channel Islands, but more in all other districts, the excess in England N.W. and Ireland N. being large.

Bright Sunshine exceeded the mean in all districts excepting England S. The percentage of the possible duration ranged from 48 in England N.W. and 47 in England N.E. to 33 in Scotland E.

Barometer and Wind.—During the greater part of the week an anticyclone extended over our western districts from the Atlantic, while depressions were shown to the north-eastward and eastward of the United Kingdom, and local irregularities over our northern and eastern districts. With these conditions the wind in our Islands was Northerly or North-Westerly, and mainly moderate or fresh in force, but occasionally blew more strongly in the extreme north. By Friday, however, a rather deep depression had appeared suddenly off the north-west of Ireland, and the anticyclone had decreased in intensity and moved south-eastwards. During the following day the disturbance moved eastwards and northwards, and caused strong winds or gales in all parts of the country—from the South-Westward in the south, the Southward in the east, the South-Eastward and Eastward in the north, and from the Northward in the extreme west.

* This value has been altered owing to the receipt of further information for a preceding week.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head §	35	23	33·3	25·6	29·3	−10·1	0	89	7	0·39	− 0·20	*	*	*	*
	Stornoway §	39	23	36·6	26·0	31·1	− 9·6	0	76	7	0·74	+ 0·02	35·9	+ 7·4	41	+ 9
	Wick §	42	15	37·1	24·4	30·6	−10·1	0	80	7	1·16	+ 0·72	*	*	*	*
	Lairg §	44	7	40·0	18·1	28·7	−10·1	0	93	6	1·26	+ 0·59	*	*	*	*
	Glencarron §	42	12	35·2	21·2	28·0	−11·6	0	98	5	1·06	− 0·31	*	*	*	*
	Fort Augustus §	45	16	38·8	24·3	31·3	− 9·9	0	75	4	0·26	− 0·37	26·0	+ 5·0	30	+ 7
	Fort William §	45	21	39·5	26·9	33·0	− 8·8	0	63	2	0·09	− 1·08	30·9	+ 5·1	35	+ 6
1. SCOTLAND, E.	Nairn §	45	16	36·9	24·1	30·3	−10·8	0	82	6	0·38	+ 0·01	*	*	*	*
	Aberdeen §	46	13	36·9	23·0	29·7	−11·9	0	86	7	1·21	+ 0·71	25·6	− 4·7	29	− 6
	Braemar §	42	1	33·1	19·9	26·3	−11·5	0	110	7	0·72	+ 0·18	*	*	*	*
	Ochtertyre §	49	16	41·3	23·7	32·2	− 9·3	0	69	4	0·73	+ 0·16	*	*	*	*
	Leith §	50	22	43·0	26·6	34·6	− 8·0	3	53	3	0·43	+ 0·10	*	*	*	*
	Marchmont §	46	18	39·6	23·9	31·5	− 8·9	0	74	7	0·46	− 0·07	37·5	+10·5	43	+12
2. ENGLAND, N.E	Alnwick Castle	48	21	40·9	26·5	33·5	− 7·5	0	60	5	0·86	+ 0·36	*	*	*	*
	Durham	47	21	39·6	25·0	32·1	− 9·2	0	69	6	0·50	+ 0·05	41·5	+14·1	47	+16
	Shields	48	21	40·1	24·4	32·0	− 9·8	0	70	7	0·69	+ 0·31	*	*	*	*
	Scarborough M	44	25	40·1	30·5	35·2	− 7·1	0	48	7	1·19	+ 0·78	38·2	?	43	?
	Spurn Head	47	26	40·3	29·4	34·7	− 7·4	0	51	6	0·57	+ 0·30	*	*	*	*
	Fulbeck (Lincolnshire)	51	21	42·0	26·2	33·9	− 8·5	0	57	6	0·37	+ 0·03	*	*	*	*
3. ENGLAND, E.	Hillington M	49	26	42·3	28·6	35·3	− 7·5	1	46	6	0·49	+ 0·12	38·9	+ 9·0	45	+11
	Yarmouth	45	25	38·3	28·0	33·0	− 8·8	0	63	7	0·94	+ 0·56	*	*	*	*
	Geldeston	47	24	42·0	27·3	34·7	− 8·1	0	51	6	0·44	+ 0·09	32·4	+ 0·2	37	0
	Cambridge	49	23	43·9	26·7	35·1	− 8·4	5	53	5	0·40	+ 0·08	33·2	+ 1·7	38	+ 1
	Felixstowe	44	26	40·3	28·8	34·4	− 8·6	0	53	4	0·39	?	37·9†	?†	44†	?†
	Rothamsted	48	21	41·0	26·7	33·6	− 9·0	0	59	5	0·38	− 0·02	32·8	+ 2·8	38	+ 4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	20	42·6	27·0	34·6	− 8·2	2	52	4	0·63	+ 0·27	*	*	*	*
	Loughborough	53	21	43·9	25·7	34·5	− 9·0	5	56	5	0·52	+ 0·19	*	*	*	*
	Colly Weston (Stamford)	52	22	42·3	27·0	34·4	− 8·1	1	51	5	0·45	?	*	*	*	*
	Cheadle M	48	20	40·1	25·8	32·7	− 9·1	0	65	5	0·74	+ 0·26	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	50	23	40·1	27·8	33·8	− 8·6	0	57	6	0·48	+ 0·10	20·1	?	23	?
	Churchstoke M	50	18	40·9	25·8	33·1	− 8·7	0	62	5	2·03	+ 1·60	35·6	+ 6·1	41	+ 7
	Hereford (Belmont) M	51	23	42·6	27·7	34·9	− 8·7	2	49	6	0·88	+ 0·52	*	*	*	*
	Cirencester	51	18	41·4	26·1	33·5	− 8·5	0	60	3	0·43	0·00	35·3	+ 4·8	41	+ 7
	Oxford	50	24	42·4	27·7	34·8	− 8.9	1	49	4	0·31	− 0·04	31·4	+ 1·9	36	+ 2
5. ENGLAND, S.	London	48	25	41·4	28·1	34·6	− 9·7	0	52	3	0·50	+ 0·15	22·0†	− 1·0†	25†	− 1†
	Swarraton (Alresford) M	47	18	40.3	25·2	32·5	9·8	0	67	3	1·01	+ 0·56	*	*	*	*
	Dungeness	48	23	40.7	28·1	34·2	− 8.6	0	55	3	0·32	+ 0·02	26·4	?	30	?
	Hastings (St. Leonards)	46	23	40·6	29·1	34·7	− 8·9	0	51	2	0·54	+ 0·10	33·6	− 1·4	39	− 1
	Southampton	49	24	44·0	29·2	36·4	− 8·4	6	45	4	1·06	+ 0·61	31·4	− 1·6	36	− 1
	Portland Bill	48	27	42·0	31·4	36·5	− 8·7	0	39	4	0·70	?	*	*	*	*
	Shaftesbury M	48	22	40·3	27.1	33·5	− 9·1	0	60	5	0·78	+ 0·28	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	47	20	40·0	25·9	32·7	−10·2	0	65	7	0·85	− 0·35	*	*	*	*
	Glasgow §	45	25	39·0	27·3	33·0	− 8·8	0	63	3	0·54	+ 0·02	34·1	+11·0	39	+13
	Glenlee §	46	13	41·6	20·8	30·9	−10·6	0	78	2	0·66	− 0·14	*	*	*	*
	Douglas (Isle of Man)	47	24	42·5	29·4	35·8	− 7·0	1	43	4	1·24	+ 0·66	45·3	+10·8	51	+12
7. ENGLAND, N.W.	Newton Reigny	45	18	39·1	22·0	30·3	−10·5	0	82	4	1·10	?	43·7	?	50	?
	Stonyhurst	44	20	39·8	28·3	33·9	− 8·0	0	57	4	1·11	+ 0·42	40·3	+12·3	46	+15
	Blackpool M	46	21	41·8	26·0	33·7	− 9·1	0	58	2	1·82	+ 1·37	40·1	?	46	?
	Manchester (Prestwich)	47	19	40·6	25·3	32·7	− 9·9	0	65	4	0·70	+ 0·18	39·9	?	45	?
	Liverpool Obsy. (Bidston)	49	27	41·1	30·4	35·6	− 7·9	0	45	5	0·76	+ 0·39				
	Chester (Hawarden Bridge)	49	24	43·0	28·4	35·5	− 8·8	3	47	4	0·33	?	*	*	*	*
	Llandudno M	47	28	42·9	31·3	37·1	− 7·4	3	36	5	1·24	+ 0·82	39·6	+10·7	46	+13
	Holyhead	47	28	40·6	30·4	35·4	− 9·0	0	46	7	2·05	+ 1·57	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	17	42·7	23·9	33·0	−10·3	2	62	6	1·60	+ 0·87	*	*	*	*
	Pembroke	46	29	42·6	33·0	37·7	− 6·2	2	31	6	0·86	+ 0·38	37·5	+ 2·6	43	+ 4
	Clifton												*	*	*	*
	Bath	52	22	43·4	27·6	35·3	− 8·5	4	50	3	0·64	?	31·7	?	36	?
	Arlington (N. Devon)	49	21	40·9	27·4	34·0	− 8·4	0	56	6	0·51	− 0·23	*	*	*	*
	Cullompton M	53	21	44·0	27·3	35·4	− 9·4	6	51	5	0·64	+ 0·10	36·5	+ 5·2	43	+ 6
	Falmouth	51	28	43·5	32·2	37·7	− 7·7	4	34	5	0·35	− 0·35	42·6	+ 6.6	49	+ 8
	Plymouth	50	22	44·0	28·0	35·8	− 9·6	6	49	5	0·55	0·00	36·0	+ 1·7	41	+ 2
9. IRELAND, N.	Malin Head	45	28	38·6	31·1	34·7	− 8·9	0	51	6	0·47	?	*	*	*	*
	Londonderry	48	28	41·3	29·6	35·3	− 8·5	0	47	7	1·36	+ 0·76	*	*	*	*
	Edenfel (Omagh)	46	23	40·1	26·0	32·8	− 9·1	0	64	7	1·30	+ 0·76	*	*	*	*
	Blacksod Point	45	27	42·7	32·4	37·4	− 7·5	2	33	7	1·65	?	*	*	*	*
	Markree Castle	47	19	42·4	26·3	34·1	− 9·0	1	53	7	0·89	+ 0·29	33·5	+ 6·0	38	+ 7
	Armagh	49	23	43·4	27·4	35·2	− 7·3	4	51	4	0·52	+ 0·06	30·5	+ 3·5	35	+ 4
	Donaghadee	48	26	41·0	29·6	35·1	− 8·2	0	48	4	0·90	+ 0·47	*	*	*	*
10. IRELAND, S.	Dublin	48	26	43·0	29·9	36·3	− 8·6	3	42	5	0·26	− 0·18	43·4	+11·6	50	+13
	Parsonstown	47	20	42·4	25·6	33·8	− 9·7	1	56	6	0·64	+ 0·14	33·6	+ 4·6	39	+ 6
	Kilkenny	44	22	41·6	27·6	34·4	−10·1	0	53	5	0·78	+ 0·29	*	*	*	*
	Roche's Point	48	30	45·3	34·1	39·5	− 6·1	9	29	5	1·00	+ 0·28	*	*	*	*
	Valencia	49	26	46·0	33·1	39·4	− 7·0	11	33	5	1·08	+ 0·21	39·9	+ 6·9	46	+ 8
	Killarney	51	21	48·3	31·1	39·5	− 6·1	18	41	?	?	?	*	*	*	*
	Foynes	48	25	45·1	29·8	37·2	− 7·6	9	43	3	1·09	+ 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	32	46·1	34·9	40·3	− 6·4	11	26	5	0·37	− 0·13	33·8	?	39	?
	Jersey	53	31	45·6	34·0	39·6	− 6·7	10	29	6	0·46	− 0·02	46·8	+ 8·2	54	+10

Stations marked M are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

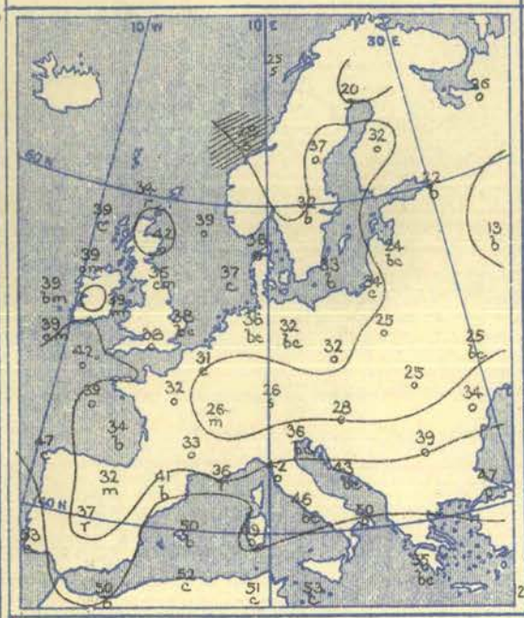
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 24th March.

Temperature and Weather.

8 a.m.

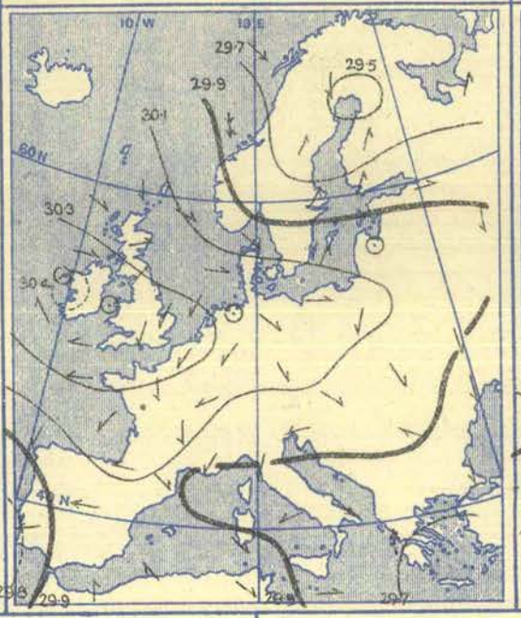


Weather in morning fine but hazy over Ireland, England and the greater part of France, north Germany and central Russia; dull with rain in Scotland, snow in the north-west of Norway and over Lapland; rain also in the south of France and at Madrid. Showers of sleet and snow later in all parts of our western, northern, and north-eastern districts, as well as over Scandinavia, and some rain locally in the southern parts of France.

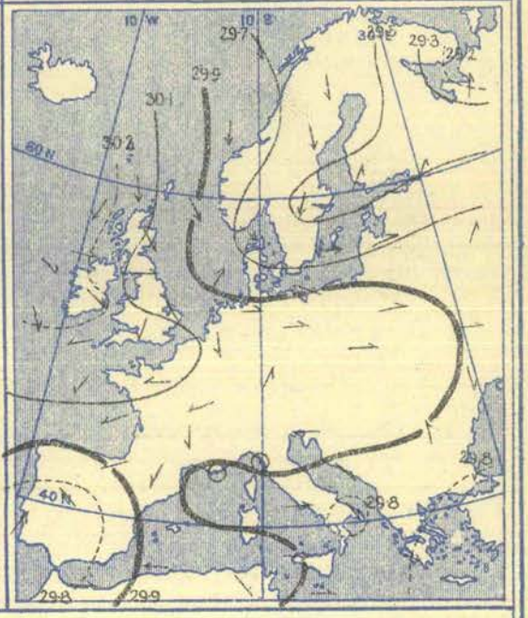
Temperature changing rather fitfully, but inclined to give way over the western and north-western countries. Morning readings highest, 54° to 50° on the western and southern coasts of the Mediterranean, and also on the coast of Portugal; 42° at Scilly and Roches Point, as well as at Wick, Nairn, and Aberdeen. Lowest, 27° at Parsonstown, 30° at Newton Reigny, 35° at Paris, 32° at Berlin, 20° at Haparanda, ? 13° at Moscow. Touching 50° at Loughborough only in the British Islands, 55° at Rochefort, 63° at Lisbon and Palermo, 72° at Biskra, 77° at Laghouat.

Barometer and Wind.

8 a.m.



6 p.m.



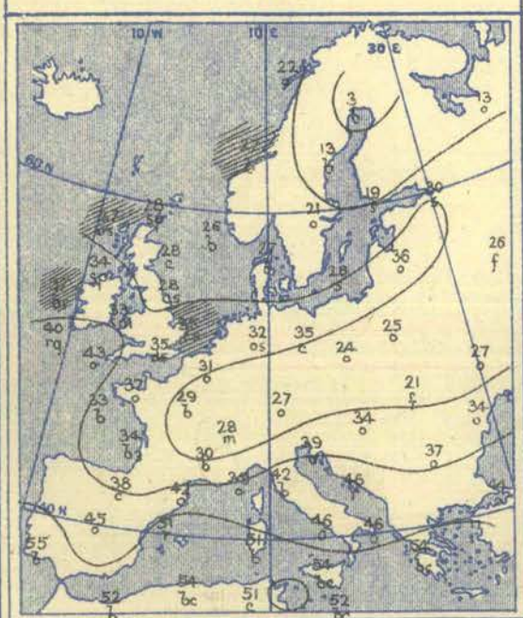
Wind North-Westerly to North-Easterly (anticyclonic) over the British Islands; North-Easterly over the north of France; North-Westerly to South-Westerly (cyclonic) over northern Europe; a gale at Christiansund: North-Easterly to North-Westerly (cyclonic) over Italy and neighbourhood; Easterly over the Spanish Peninsula. The Northerly wind blowing hard over Scandinavia later; the wind at Lisbon shifting to South-Westward, and at Madrid to South-Eastward.

Barometer highest, 30·4 ins. and more over Ireland, and varying between that value and 30·1 ins. in a broad ridge spreading Eastwards over England and France to Germany. Lowest, 29·9 ins. and less in a depression near Uleaborg, 29·7 ins. and less over Asia Minor. Deep depression appearing later over the White Sea, with a "V" extending South-Westwards over Finland, and another disturbance appearing over Spain. Barometer falling generally.

Monday, 25th March.

Temperature and Weather.

8 a.m.

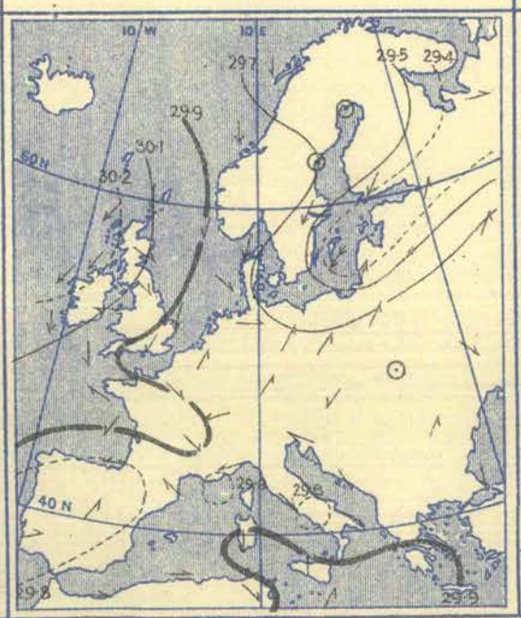


Weather in morning very changeable over the north and north-west of our Islands, cloudy in some localities, clear in others with snow in some places, rain in others, fine over France, and fair over central Europe. Cold showers (snow and graupel) later in all parts of the United Kingdom, rain showers in some places and in some parts of the Continent, but greatest amounts reported 0·25 ins. at Shields and 0·39 ins. at Buda Pesth.

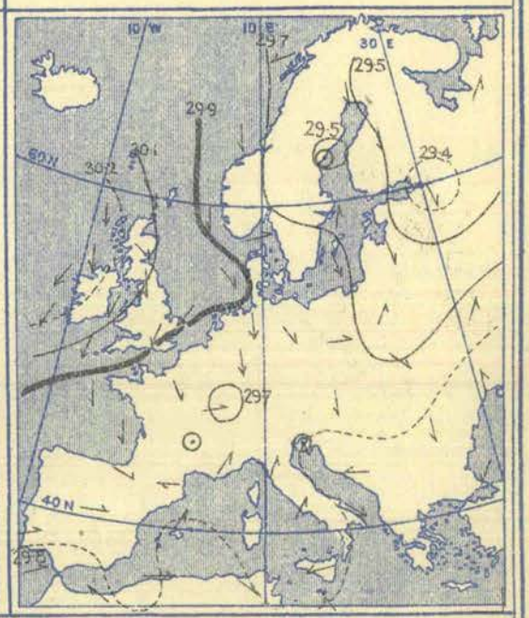
Temperature decreasing over the United Kingdom, risen over north Germany. Morning readings highest, 54° at Palermo and Algiers, and above 50° over the southern parts of the Mediterranean generally; 43° at Scilly, 40° at Valencia, 37° at Blacksod, and Cape Gris Nez. Lowest, 3° Fahr. at Haparanda, 19° at Hangö, 26° at Moscow, 21° at Lemberg, 22° at Cracow, 28° at Aberdeen and Shields. Rising later to 46° at Jersey and Scilly, 42° at Valencia and Pembroke, touching 55° at Rochefort, 61° at Lisbon, 64° at Palermo, 68° at Nemours and Algiers, 70° at la Calle and Sfax, 73° at Tunis.

Barometer and Wind.

8 a.m.



6 p.m.

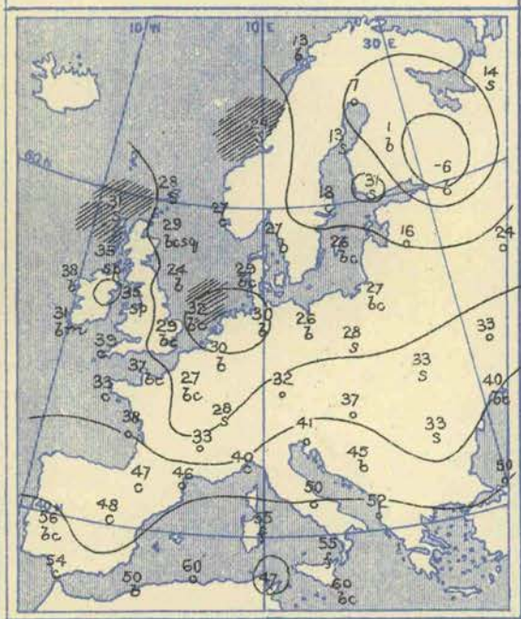


Wind light to moderate from North and North-East over the British Islands and France, strong Northerly and North-Westerly in Denmark, moderately South-West over Germany, and strong to a gale from North-East over the Gulf of Finland and the south-east of Sweden. Moderating over these north-eastern places later, but freshening a little in our Islands. Very light over southern Europe.

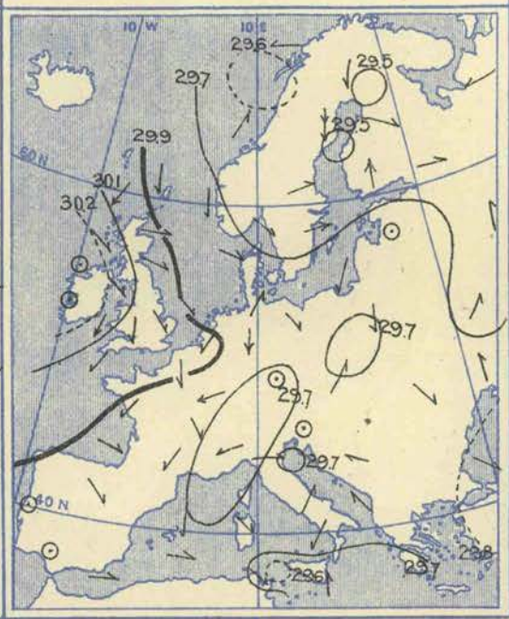
Barometer in morning highest, 30·2 ins. and more over our extreme north-western and northern districts, and exceeding 30·0 ins. all over Ireland and the most northern parts of the Bay of Biscay: 29·8 ins. and more over central Europe. Lowest, 29·4 ins. and less over the Baltic, the Baltic Provinces, and the White Sea. Gradients steep over the south-east of Sweden and southern parts of the Baltic. Changing irregularly later, and several depressions appearing over Finland and the north of Russia.

Tuesday, 26th March

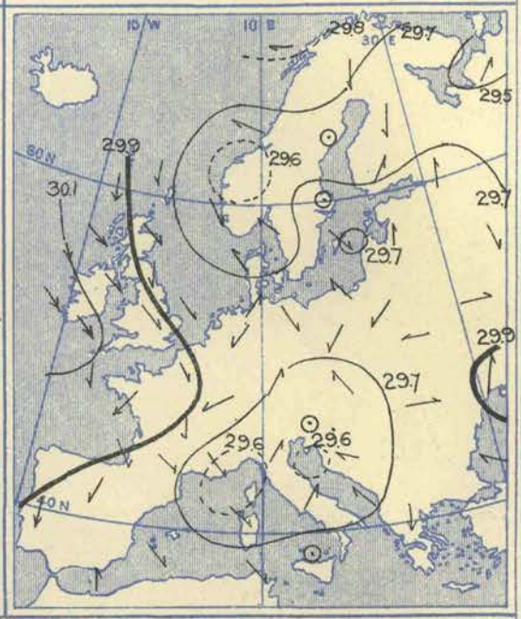
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright almost all over France, Ireland, England and the North Sea; snow reported in most parts of Scotland and in several localities over northern and central Europe, rainy in the north of Italy and dull over the Mediterranean generally. Showers of snow later in most parts of our Islands, yielding but little water when melted, and some snow in a few parts of south-eastern and central Europe.

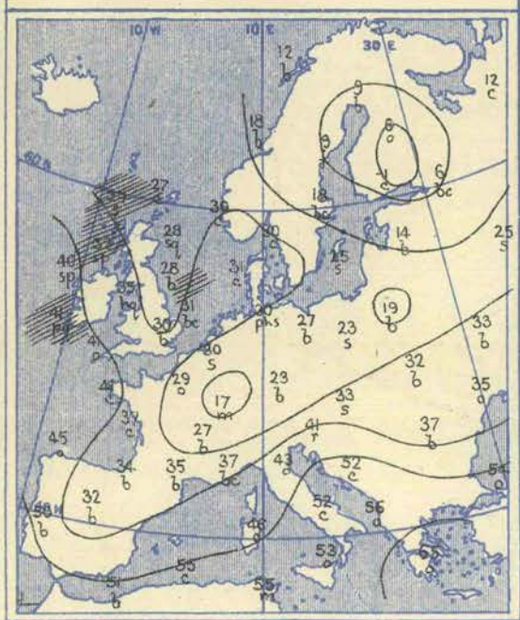
Temperature little changed except in south of our Islands—where it had fallen. Morning readings highest, 60° at Malta and Algiers, 56° at Lisbon, 55° at Palma and Palermo, 50° at Naples, 39° at Scilly, 38° at Blacksod Point. Lowest, −6° Fahr. at St. Petersburg, 0° (Zero) at Haparanda, 1° at Kuopio, 29° at Berlin, 27° at Paris, 26° at Loughborough and also at Parsonstown, rising later to 45° at Valencia and to above 40° at several of our south-western stations and touching 52° in the west of France, 56° at Perpignan, 68° at Palermo and Algiers, 70° at Tunis, 77° at Biskra.

Wind North-Westerly to Northerly over the whole of the British Islands and western Europe and mostly anticyclonic, though strong in places; varying greatly in direction and force over continental Europe, strong to a gale in some northern localities, but moderate to light as a whole. Changes later very variable, both in force and direction.

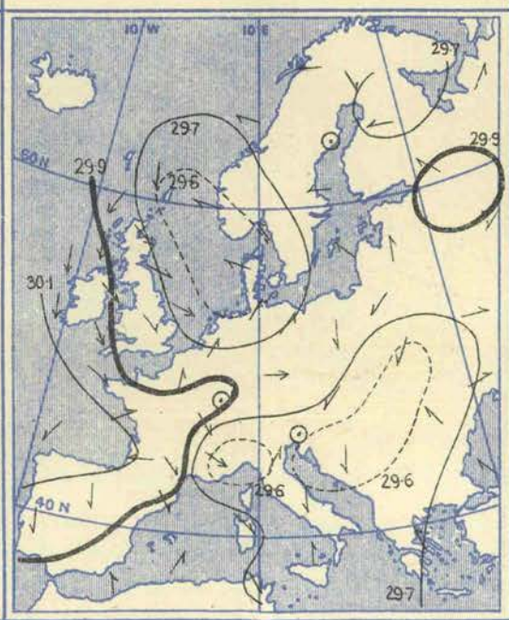
Barometer highest, 30·2 ins. and more to 30·1 ins. over Ireland and Wales, and exceeding 29·9 ins. all over the British Isles, the north-west and north of France. Lowest, less than 29·5 ins. over the Gulf of Bothnia, and less than 29·7 ins. near Prague, and also over part of Austria and the south-east of France; below 29·6 ins. at Tunis. Various changes later, pressure decreasing over the British Islands, increasing over south-eastern Europe.

Wednesday, 27th March.

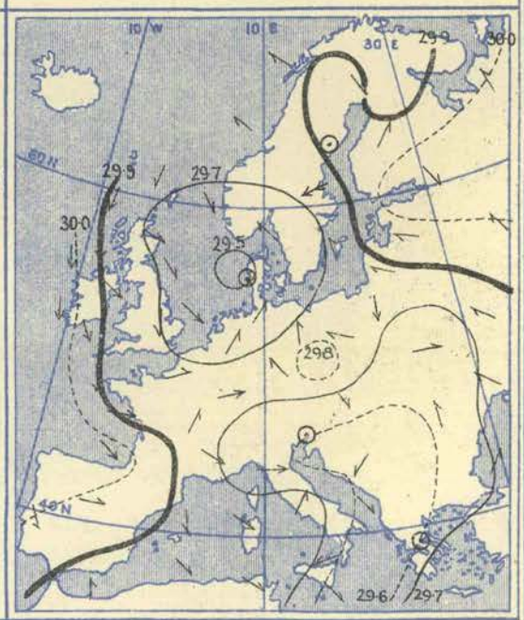
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of continental Europe and over the east of England, dull in Ireland, with snow squalls at many of our northern and western stations. Snow or hail (graupel) showers later at nearly all stations in our Islands and western Europe and in some parts of central Europe; amounts small generally but in some localities large.

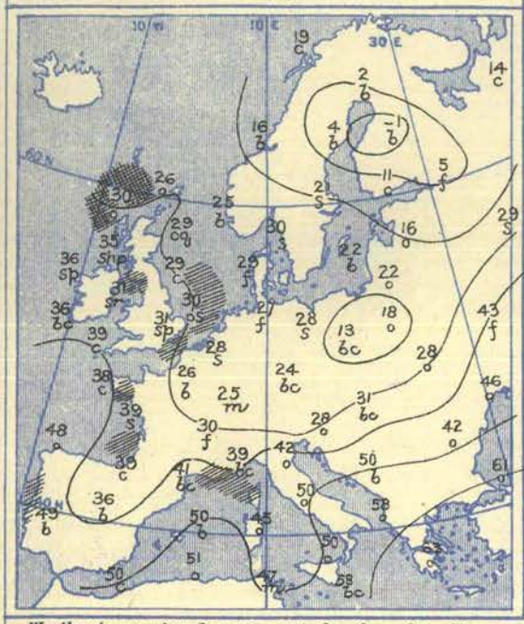
Temperature very low generally. Morning readings highest, 57° to 55° on north coast of Africa, 53° at Rome, 50° at Lisbon, 41° at Scilly and Valencia, 40° at Blacksod Point. Lowest, −1° Fahr. at Helsingfors, +6° at Uleaborg, 12° at Archangel and Bodo, 14° at Riga, 25° at Moscow, 27° at Berlin, 29° at Paris, 25° at Loughborough. Touching 45° to 40° later at some of our western and south-western coast stations, 46° in the south-west of France, 48° at Nice, 59° at Oporto and Rome, 68° at Brindisi and at Oran, succeeding night very cold indeed.

Wind (1) Northerly and North-Westerly, rather strong over the British Islands, moderate over Brittany; (2) South-Easterly and South-Westerly on the eastern shores of the North Sea; (3) exceedingly variable in direction but light in force over continental Europe as a whole. Hardly any change later except over southern France, Sardinia and Corsica—where the winds increased to a gale from Westward and North-Westward.

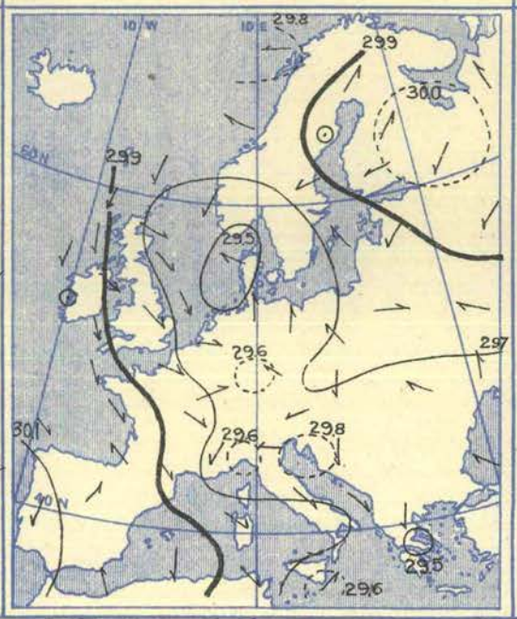
Barometer highest, −30·1 ins. and more to 29·9 ins. over the north of Spain, the west of France, the Bay of Biscay and Ireland, and exceeding 29·9 ins. at St. Petersburg. Lowest, (1) 29·6 ins. and less in a large but shallow depression over the North Sea; and 29·7 ins. and less in another system over Finland; (2) 29·6 ins. and less in a shallow system over Herzegovina and Transylvania, and in a smaller disturbance over the north-east corner of the Mediterranean. The latter system and the one over the North Sea becoming rather deeper later.

Thursday, 28th March.

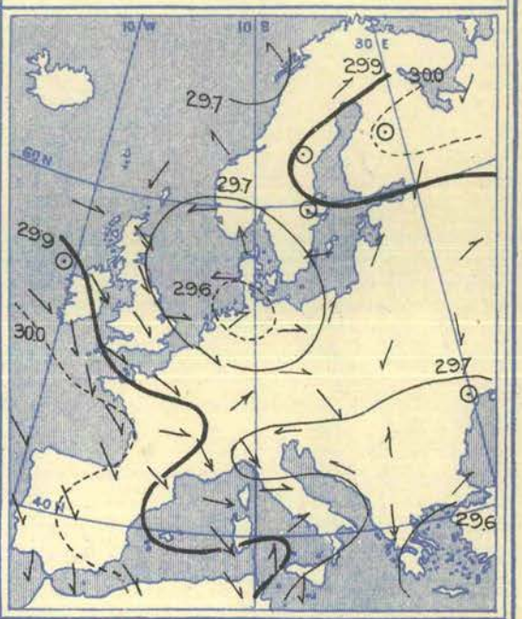
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over central and northern Europe, somewhat unstable elsewhere. Occasional snow-showers in many places, separated by intervals of bright weather. Snow showers continuing in most places all day, and accompanied by thunderstorms along the east coast of England, and "graupel" in the north-west.

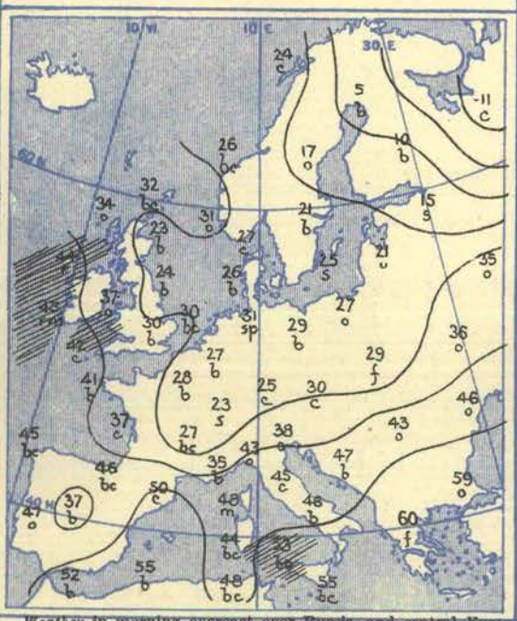
Temperature again fallen in most places, risen over Russia. Morning readings highest, 58° at Malta, only 51° or 50° on the Algerian coasts, at Palma and Rome. From Nice to the north of Europe not one reading above 40°. Lowest, −1° at Kupio, +4° at Hernosand, 5° at St. Petersburg, 16° at Riga and Christiansund, 18° at Warsaw, 28° at Berlin, 26° at Paris, 29° at Shields, 30° at Parsonstown. Again touching 45° to 40° at our south-western stations during the day, and 44° (locally) at Leith; 48° at Biarritz, 56° at Perpignan, 59° at Oporto, 68° at Nemours and La Calle.

Wind North-East to North-West over the British Islands—strong in force, and a moderate gale at Stornoway; North-Westerly to Westerly over the north of France, Southerly over Germany, Easterly over Scandinavia. A small cyclonic circulation noticed over the north-eastern parts of the Mediterranean. Decreasing in force later over our Islands, and backing in the north and north-west, but increasing to a very strong wind from West and North-West over the south of France and Corsica.

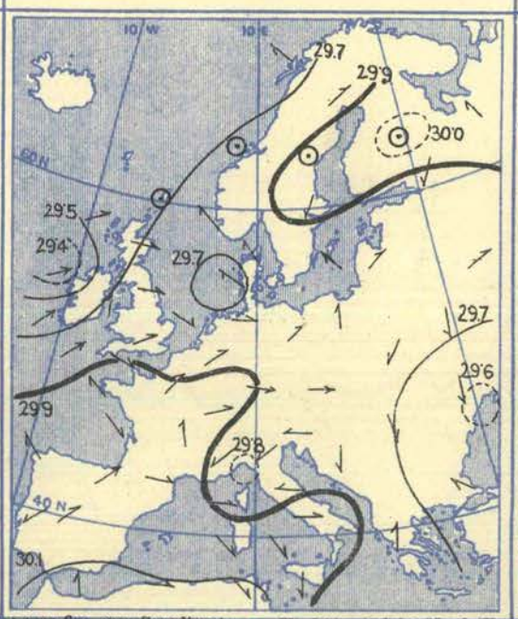
Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over the Spanish Peninsula, the south-west of France, the Bay of Biscay and Ireland, as well as over Finland and the north of Russia. Lowest, 29·5 ins. and less in a depression over the North Sea, 29·6 ins. and less in two disturbances—one over the northern parts of the Adriatic, the other near Nice. The western high pressure area inclined to give way later—that over Finland moving.

Friday, 29th March.

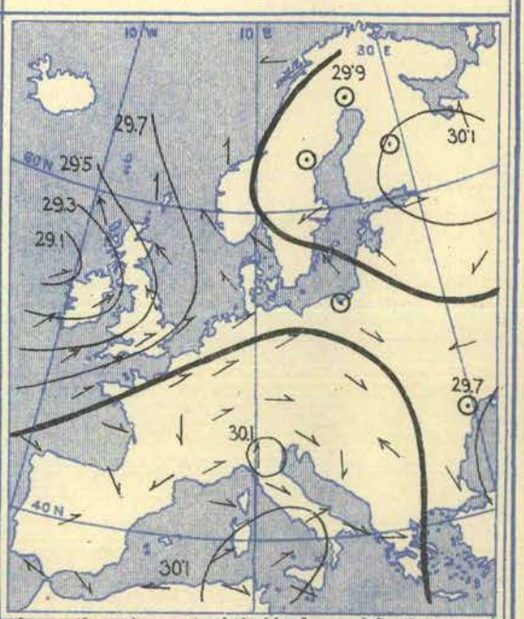
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast over Russia and central Europe; very fine over Scandinavia, nearly all of Great Britain and France; dull, rainy, and unsettled over Ireland. Showery (snow and hail) on the south-eastern shores of the North Sea. Much rain at our western stations later, and smaller quantities in the east—the fall being mingled with snow in many places. A lunar halo seen in London at night.

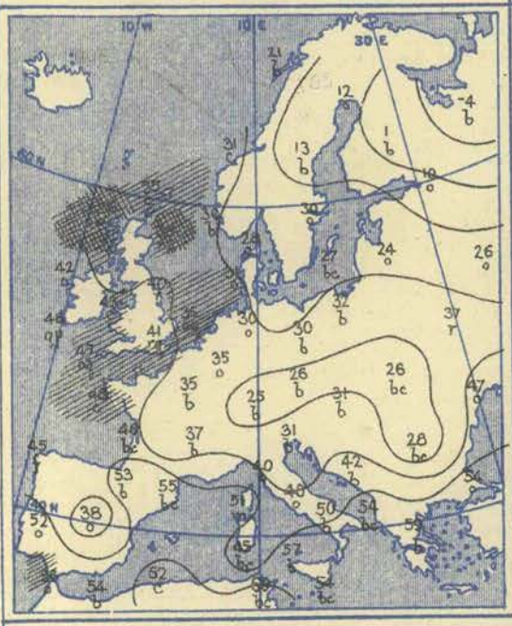
Temperature rising in the west and south of the British Islands and over Russia and Germany, falling at our eastern and north-eastern stations. Morning readings highest, 60° at Patras, 55° at Malta and Algiers, 47° at Lisbon, 45° at Valencia, 42° at Scilly. Lowest, 29° at Nairn and Oxford, 26° at Penrith, 33° at Parsonstown, 22° at the Scaw, 8° at Helsingfors, −11° Fahr. at Archangel. Rising later to 49° at Scilly, 47° at Valencia, 45° at Portland, 44° at London, to 50° at Nice, 55° at Rochefort. Air over north-western Europe much more humid than of late.

Wind (1) remaining North-Westerly over the eastern parts of the kingdom, and South-Easterly in Denmark and Norway; (2) South-Westerly on our south-west coasts, South-Easterly in the north of Ireland. Variable over central and southern Europe, South-Easterly to Easterly over the northern countries. An isolated cyclonic circulation over the north-eastern parts of the Mediterranean, South-Westerly and Westerly winds on the coast of Africa and the south of Italy. The South-Westerly wind increasing in our Islands later and becoming more general.

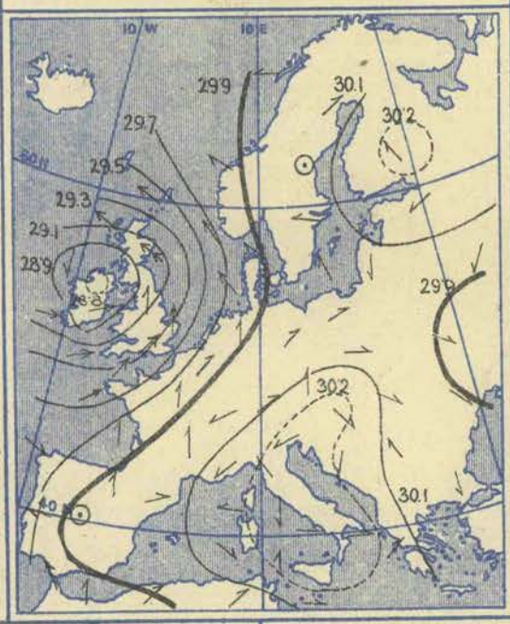
Barometer highest, (1) 30·1 ins. and more to 30·0 ins. over the north of Africa and over the Spanish Peninsula; (2) 30·0 ins. and more to 29·9 ins. over Finland and part of Sweden. Lowest, (1) 29·4 ins. and less in a new depression advancing over the north-western parts of Ireland from the Atlantic; (2) below 29·7 ins. in a shallow disturbance still lying over the south-eastern part of the North Sea; (3) 29·7 ins. and less in a disturbance near Odessa, and below 29·8 ins. in another near Leghorn. Barometer falling fast over the British Islands later and slowly over Spain. Depression in north-west becoming much deeper.

Saturday, 30th March.

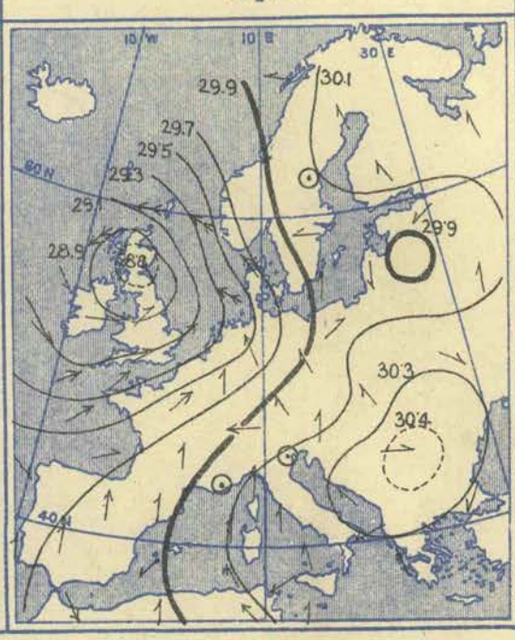
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very rough and unsettled all over the British Islands and their neighbourhood, with rain in all districts, wet snow in some. The showery, changeable conditions continuing all day—the amount of rainfall being considerable (especially at Wick) and consisting largely of a mixture of snow, graupel (soft hail), and rain.

Temperature risen greatly over western Europe—as much as 15° over central England, fallen over the northern and central countries. Morning readings highest, 62° at Algiers, 60° at La Calle; 52° at Lisbon and Oporto, 47° at Scilly. Above 40° over Ireland and England generally. Lowest, −4° Fahr. at Archangel, + 1° at Kuopio, 15° at Hango, 24° at Riga and Breslau, 33° to 36° in Scotland. Rising later to between 45° and 50° in many places, and to between 53° and 59° over central England, to 66° at Biarritz and 68° at Perpignan.

Wind light and very variable (mainly Northerly to Westerly) over the major part of Continental Europe. Cyclonic and strong to a gale over our Islands and their neighbourhood. South-Westerly and Southerly in the south. South-Easterly over the eastern shores of the North Sea. South-Easterly to Easterly over Scotland. Northerly to Westerly (moderate) in the west and south of Ireland. Moderating later, except in the extreme north of Scotland and the Shetlands, where Easterly to North-Easterly gales continued.

Barometer in morning highest, 30·2 ins. and more to 30·1 ins. over Italy, the Adriatic, and all the neighbouring countries, and the eastern part of the Mediterranean. Lowest, 28·8 ins. and less in a growing and complex depression over Ireland, the Irish Sea, and south-west of Scotland, gradients steep over the British Islands and their neighbourhood. Depression moving north-eastwards very slowly later, but remaining deep.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of this week barometric pressure was as high as 30·4 ins. to 30·3 ins. over Ireland and England, and exceeded 30·1 ins. over the whole of the British Islands and France, and in a ridge extending eastwards over north Germany. To the northward readings decreased to 29·5 ins. and less over the north of Finland, and to the south-eastwards to 29·8 ins. and less over Asia Minor. The winds over the northern countries were accordingly South-Westerly to North-Westerly, and in the south, Easterly to Northerly and North-Westerly. During several succeeding days the barometer fell unsteadily over eastern and southern Europe, and several depressions appeared over those regions and the North Sea, but was high in the west and north-west, so that over the western countries the wind continued more or less Northerly, and temperature was very low for the time of year. Showers of snow and graupel were of common occurrence, the air was very keen, but the amount of bright sunshine over the British Islands in the intervals between the snow showers was very considerable.

After Tuesday evening the Atlantic high-pressure system began to move slowly to the southwards, and on Friday a well-marked depression from the Atlantic reached Ireland, where it developed great intensity—the barometer falling to 28·8 ins. and less over Ireland and Scotland. The winds were completely reversed in direction and blew a gale in most places, with rain and wet snow, and temperature rose greatly.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	33·2	+ 5·2	38	+ 6	BRIGHTON	24·7	−10·0	28	−11
STRATHPEFFER SPA	35·9	+11·4	41	+13	WORTHING	32·4	?	37	?
EDINBURGH	25·0	+ 0·9	28	0	BOGNOR	34·9*	?	40*	?
MORPETH	44·8	?	51	?	WATERGATE (Emsworth)	29·6	?	34	?
NEWCASTLE-ON-TYNE	37·9	?	43	?	WESTBOURNE (Emsworth)	29·6*	− 6·5	34*	− 7
OSWALDKIRK (Yorkshire)	44·7	+16·7	51	+19	VENTNOR HOSPITAL	34·7	− 2·5	40	− 3
LOWESTOFT	36·2	?	42	?	SOUTHPORT	44·9	?	51	?
HOLLESLEY BAY	36·6	?	42	?	RHYL	*	?	*	?
SHEFFIELD	38·2	?	44	?	COLWYN BAY	39·2	?	45	?
WORKSOP	37·8	+11·9	43	+14	ABERDOVEY	44·2*	?	51*	?
THURCASTON (Leicestershire)	41·9	+15·9	48	+18	TENBY	31·4	− 5·1	36	− 6
MARGATE	29·6	− 1·6	34	− 2	NEWQUAY	39·8	+ 4·9	46	+ 6
BROADSTAIRS	28·6	?	33	?	TORQUAY	47·8	+11·8	55	+14
EASTBOURNE	30·2	− 4·6	35	− 5	GUERNSEY	35·6*	− 2·4	41*	− 3

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 14.] *Third Series.* WEEK ENDING SATURDAY, APRIL 6TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 80.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	26	44·6	31·8	37·9	3 below	7	−12	35	+11	94	−32	503	+33
	1. SCOTLAND, EAST	54	24	46·1	31·2	38·3	4 below	11	−14	38	+13	75	−93	573	+47
	2. ENGLAND, N.E.	55	28	49·1	34·8	41·6	1 below	20	− 5	28	+ 9	94	−86	476	+27
	3. ENGLAND, EAST	60	27	51·4	35·6	43·1	1 below	35	+ 2	18	− 3	114	−103	524	+31
	4. MIDLAND COUNTIES	59	26	50·8	34·7	42·3	1 below	33	− 2	20	0	121	−120	537	+44
	5. ENGLAND, SOUTH	58	27	49·9	38·4	43·9	1 below	28	− 8	10	− 4	139	−121	428	+51
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	27	46·2	34·2	39·9	3 below	12	−15	28	+10	118	−68	425	+44
	7. ENGLAND, N.W.	56	30	42·1	36·1	41·8	2 below	17	−11	23	+ 7	106	−90	433	+67
	8. ENGLAND, S.W.	60	28	50·8	37·9	44·0	1 below	31	− 2	11	− 1	181	−101	358	+65
	9. IRELAND, NORTH	55	30	47·7	35·2	41·2	3 below	16	−15	26	+11	158	−91	342	+18
	10. IRELAND, SOUTH	62	32	50·8	37·0	43·5	2 below	32	− 5	14	+ 4	229	−112	307	+68
	—CHANNEL ISLANDS—	56	38	52·3	42·7	47·3	0 (average)	37	− 2	0	− 4	305	−75	160	+42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 80.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	3 more	70	+ 5	11·5	− 3·2	26	− 2	28	− 2	210	+ 3	23	+ 1
	1. SCOTLAND, EAST	4	8	3 more	56	+ 4	7·3	− 0·6	39	+10	43	+11	214	−31	23	− 3
	2. ENGLAND, N.E.	3	3	1 less	59	+ 9	5·8	0·0	40	+ 7	44	+ 8	220	−20	24	− 2
	3. ENGLAND, EAST	5	8	5 more	57	+ 5	5·9	+ 0·2	27	− 8	30	− 9	231	−66	22	− 6
	4. MIDLAND COUNTIES	5	7	3 more	54	+ 6	7·4	+ 0·8	26	− 3	29	− 3	190	−52	21	− 5
	5. ENGLAND, SOUTH	5	10	6 more	50	+ 1	7·2	+ 0·1	26	− 9	29	−11	236	−63	23	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	20	13 more	55	− 4	12·1	− 3·0	39	+ 8	43	+ 8	252	+13	26	+ 1
	7. ENGLAND, N.W.	6	7	2 more	57	+ 4	7·4	− 1·0	36	+ 6	40	+ 7	253*	+ 1	25	0
	8. ENGLAND, S.W.	6	16	10 more	53	− 3	10·9	− 0·1	25	−12	28	−13	278	−17	29	− 2
	9. IRELAND, NORTH	7	15	10 more	66	+ 4	9·5	+ 0·6	35	+ 5	38	+ 6	242	− 2	25	0
	10. IRELAND, SOUTH	6	14	8 more	56	− 3	10·1	− 1·2	36	+ 3	40	+ 3	274	−10	28	− 1
	— CHANNEL ISLANDS—	6	20	15 more	69	+ 9	10·0	+ 1·2	23	−19	26	−21	264	−108	24	−11

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was again very unsettled generally, steady rains or frequent showers alternating with intervals of clear sky. Over the northern and western districts the showers were occasionally composed of sleet or hail. Thunder and lightning occurred at several of our eastern stations during the early days of the period.

Temperature just equalled the mean in the Channel Islands, but in all other parts of the Kingdom it was below the normal value; the deficit in Scotland was 3° or 4°, but less elsewhere, that over the greater part of England being only 1°. The highest of the maxima were recorded either on the 3rd or 6th, when they ranged from 62° in Ireland S. and 60° in England S.W. and E. to 50° in Scotland W. The lowest of the minima were experienced, as a rule, on the 2nd, and ranged from 24° in Scotland E. to 32° in Ireland S. and to 38° in the Channel Islands.

Rainfall was more than the mean in all districts excepting England N.E. The fall in most of the western districts and in England S. and E. was more than twice, and that in the Channel Islands four times as much as the average.

Bright Sunshine was deficient over southern, central and eastern England, as well as in the Channel Islands, but exceeded the mean elsewhere. The percentage of the possible duration ranged from 44° in England N.E., and 43° in Scotland E. and W., to 29° in England S. and the Midland counties, 28 in Scotland W. and England S. W. and to 26° in the Channel Islands.

Barometer and Wind.—During the whole of this week depressions from the Atlantic have followed each other in quick succession; the centres of the primary systems mostly skirted our western and northern coasts, while their secondaries passed more directly over the Kingdom. Some of the disturbances were rather deep, and the winds, which were generally Southerly to South-Westerly or Westerly, were occasionally strong in force, especially on our western and and south-western coasts.

* This value has been altered owing to the receipt of further information for a preceding week.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	32	43·4	34·1	38·5	− 1·6	4	27	7	0·99	+ 0·44	*	*	*	*
	Stornoway	45	28	42·9	31·3	36·8	− 4·8	3	36	6	1·32	+ 0·66	26·8	− 4·7	29	− 5
	Wick	46	30	43·9	32·3	37·8	− 3·8	5	33	6	0·55	+ 0·14	*	*	*	*
	Lairg Ⓢ	53	26	47·3	29·2	37·8	− 2·1	15	45	5	0·69	+ 0·08	*	*	*	*
	Glencarron Ⓢ	48	28	43·5	31·0	37·0	− 3·7	4	38	6	1·12	− 0·12	*	*	*	*
	Fort Augustus Ⓢ	48	27	45·7	31·0	38·0	− 4·4	10	39	6	0·79	+ 0·21	16·5	− 6·5	18	− 7
	Fort William Ⓢ	47	30	45·5	33·6	39·3	− 3·6	10	30	6	1·47	+ 0·44	22·0	− 6·0	24	− 6
1. SCOTLAND, E.	Nairn	50	28	46·4	30·9	38·3	− 4·0	12	39	6	0·28	− 0·07	*	*	*	*
	Aberdeen	50	30	46·0	33·0	39·2	− 3·1	11	32	4	0·68	+ 0·18	43·9	+11·7	48	+13
	Braemar Ⓢ	43	24	40·5	29·7	34·8	− 4·0	0	50	4	0·83	+ 0·31	*	*	*	*
	Ochtertyre Ⓢ	54	27	47·6	30·1	38·4	− 4·1	16	42	4	2·28	+ 1·73	*	*	*	*
	Leith	52	32	49·4	34·0	41·3	− 1·9	21	30	4	0·33	0·00	*	*	*	*
	Marchmont Ⓢ	49	25	46·9	29·3	37·7	− 3·6	14	45	4	0·41	− 0·11	37·5	+ 7·9	41	+ 9
2. ENGLAND, N.E	Alnwick Castle	52	28	49·6	33·3	41·1	− 0·6	21	33	3	0·28	− 0·22	*	*	*	*
	Durham	50	28	47·3	33·7	40·2	− 2·0	15	31	2	0·07	− 0·37	37·8	+ 9·7	42	+11
	Shields	53	32	49·7	34·6	41·8	− 0·8	22	29	2	0·13	− 0·25	*	*	*	*
	Scarborough Ⓜ	54	33	48·1	35·7	41·6	− 1·4	17	24	3	0·22	− 0·18	39·0	?	43	?
	Spurn Head	53	34	48·7	36·6	42·4	− 0·6	25	15	3	0·44	+ 0·14	*	*	*	*
	Fulbeck (Lincolnshire)	55	30	51·1	34·7	42·5	− 1·0	34	20	3	0·45	+ 0·09	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	59	29	52·1	35·2	43·2	− 0·7	37	19	5	0·88	+ 0·50	19·7	−12·3	22	−13
	Yarmouth	58	33	49·4	35·7	42·2	− 0·6	28	18	5	0·82	+ 0·43	*	*	*	*
	Geldeston	60	29	52·3	35·8	43·7	− 0·1	38	17	5	0·86	+ 0·51	25·7	− 8·5	29	− 9
	Cambridge	59	28	54·4	34·7	44·1	− 0·5	45	20	4	0·77	+ 0·45	26·1	− 7·1	29	− 9
	Felixstowe	53	33	48·7	36·9	42·5	− 1·7	25	14	5	0·71	?	35·4†	?†	39†	?†
	Rothamsted	57	27	51·6	35·1	43·0	− 0·5	36	19	6	0·97	+ 0·54	27·2	− 4·4	30	− 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	30	51·6	35·0	42·9	− 1·0	36	20	3	0·40	+ 0·02	*	*	*	*
	Loughborough	57	31	52·3	35·0	43·2	− 1·3	38	20	5	0·65	+ 0·29	*	*	*	*
	Colly Weston (Stamford)	57	31	52·4	34·7	43·1	− 0·6	38	20	6	0·76	?	*	*	*	*
	Cheadle Ⓜ	51	30	48·3	33·5	40·5	− 2·2	18	31	6	0·57	+ 0·09	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	33	49·6	35·3	42·1	− 1·3	29	19	5	0·69	+ 0·29	20·4	?	23	?
	Churchstoke Ⓜ	? 51	31	? 49·5	33·2	? 41·0	? − 1·6	? 21	? 41	5	0·79	+ 0·37	40·1	+ 8·0	44	+10
	Hereford (Belmont) Ⓜ												*	*	*	*
	Cirencester	57	26	50·6	33·6	41·7	− 1·4	24	33	5	1·08	+ 0·66	27·3	− 4·9	30	− 6
	Oxford	59	33	52·0	37·1	44·2	− 0·7	36	14	5	0·93	+ 0·57	25·6	− 5·7	28	− 7
5. ENGLAND, S.	London	58	30	53·0	37·1	44·7	− 0·9	39	14	4	0·87	+ 0·50	24·9†	− 0·3†	28†	0†
	Swarraton (Alresford) Ⓜ	55	27	50·4	36·0	42·9	− 0·5	32	17	5	1·14	+ 0·69	*	*	*	*
	Dungeness	55	35	49·4	40·3	44·6	+ 0·3	25	5	3	0·68	+ 0·38	26·5	?	29	?
	Hastings (St. Leonards)	53	36	48·2	39·5	43·6	− 1·1	22	7	5	0·68	+ 0·24	29·6	− 7·4	33	− 8
	Southampton	54	32	51·6	38·4	44·7	− 1·4	34	10	4	1·23	+ 0·79	21·8	−13·4	24	− 15
	Portland Bill	49	36	47·4	40·3	43·7	− 2·6	19	5	5	1·34	?	*	*	*	*
	Shaftesbury Ⓜ	52	34	49·3	37·5	43·1	− 0·6	27	13	6	0·87	+ 0·33	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	47	32	46·0	34·3	39·9	− 4·0	11	28	6	1·86	+ 0·78	*	*	*	*
	Glasgow	48	32	45·3	34·3	39·6	− 3·2	9	28	4	1·31	+ 0·81	35·7	+10·2	39	+11
	Glenlee Ⓢ	50	27	*46·5	33·6	39·7	− 2·7	13	30	5	3·58	+ 2·81	*	*	*	*
	Douglas (Isle of Man)	50	31	46·8	34·4	40·3	− 3·5	13	28	5	1·29	+ 0·71	43·0	+ 5·8	47	+ 6
7. ENGLAND, N.W.	Newton Reigny	49	30	46·7	33·3	39·7	− 2·0	13	32	6	1·12	?	40·4	?	44	?
	Stonyhurst	50	33	46·8	35·9	41·1	− 2·0	13	23	6	0·70	+ 0·06	37·8	+ 7·8	42	+ 9
	Blackpool Ⓜ	51	33	47·6	35·9	41·5	− 2·3	16	24	6	0·69	+ 0·26	35·4	+ 5·2	39	+ 6
	Manchester (Prestwich)	53	32	48·4	34·7	41·2	− 2·5	18	28	7	0·54	+ 0·05	23·5	?	26	?
	Liverpool Obsy. (Bidston)	55	33	48·9	36·0	42·1	− 2·5	26	17	6	0·35	− 0·03	31·0	?	34	?
	Chester (Hawarden Bridge)	56	34	50·4	36·9	43·3	− 2·2	31	14	4	0·23	?	*	*	*	*
	Llandudno Ⓜ	55	34	49·0	37·6	43·0	− 2·5	25	12	6	0·73	+ 0·31	36·7	+ 5·2	40	+ 6
	Holyhead	49	35	46·9	38·1	42·3	− 3·0	18	11	5	0·89	+ 0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	30	50·1	35·9	42·7	− 1·5	31	17	6	1·58	+ 0·88	*	*	*	*
	Pembroke	48	37	46·7	39·9	43·1	− 1·7	17	6	4	1·21	+ 0·74	31·7	− 5·5	35	− 6
	Clifton	59	34	52·9	38·0	45·1	+ 0·2	39	11	5	1·35	+ 0·85	*	*	*	*
	Bath	60	28	52·6	36·6	44·2	− 0·9	38	15	5	0·85	?	?	?	?	?
	Arlington (N. Devon)	53	32	49·3	35·9	42·3	− 1·0	28	17	6	1·85	+ 1·13	*	*	*	*
	Cullompton Ⓜ	58	28	52·3	36·5	44·0	− 1·7	37	15	6	1·40	+ 0·85	23·1	− 9·9	26	−10
	Falmouth	55	37	50·7	40·5	45·4	− 0·9	30	4	6	2·51	+ 1·82	22·9	−15·1	25	−17
	Plymouth	54	34	51·4	40·1	45·5	− 1·0	32	5	6	2·11	+ 1·56	21·3	−14·9	24	−16
9. IRELAND, N.	Malin Head	50	34	45·1	36·4	40·5	− 4·0	9	20	7	0·83	?	*	*	*	*
	Londonderry	52	30	47·1	34·2	40·3	− 4·5	14	28	7	1·58	+ 0·99	*	*	*	*
	Edenfel (Omagh)	54	31	48·1	33·4	40·4	− 2·5	17	32	7	1·98	+ 1·45	*	*	*	*
	Blacksod Point	52	34	47·7	37·0	42·1	− 3·7	22	14	7	1·29	?	*	*	*	*
	Markree Castle	55	34	48·3	35·7	41·7	− 2·7	18	24	7	2·00	+ 1·41	36·6	+ 6·6	40	+ 8
	Armagh	54	33	49·8	35·3	42·2	− 1·4	30	19	5	1·70	+ 1·23	32·4	+ 3·3	36	+ 4
	Donaghadee	52	33	47·9	34·7	41·0	− 3·3	17	28	6	1·25	+ 0·80	*	*	*	*
10. IRELAND, S.	Dublin	62	34	52·4	37·4	44·5	− 1·3	37	13	5	0·28	− 0·17	44·0	+10·0	48	+10
	Parsonstown	57	32	50·9	34·7	42·4	− 2·0	33	20	6	0·95	+ 0·45	35·7	+ 4·5	39	+ 5
	Kilkenny	58	32	50·4	35·6	42·6	− 2·8	31	18	5	0·91	+ 0·41	*	*	*	*
	Roche's Point	52	36	49·1	39·0	43·8	− 2·8	25	8	6	2·16	+ 1·43	*	*	*	*
	Valencia	54	35	50·3	38·3	44·0	− 3·2	30	10	7	3·01	+ 2·12	28·4	− 6·6	32	− 6
	Killarney												*	*	*	*
	Foynes	58	33	51·4	37·0	43·9	− 1·8	34	14	5	1·09	+ 0·51	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	40	52·1	42·7	47·2	− 0·4	36	0	6	2·03	+ 1·53	26·1	?	29	?
	Jersey	56	38	52·4	42·7	47·3	− 0·2	37	0	6	1·99	+ 1·51	19·5	−21·5	22	−24

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

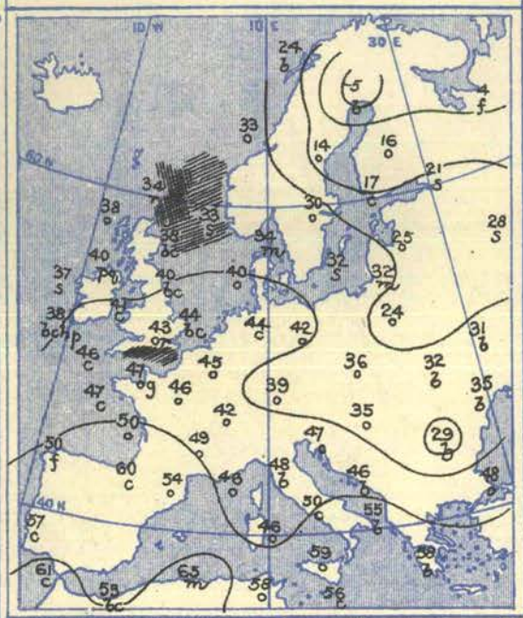
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

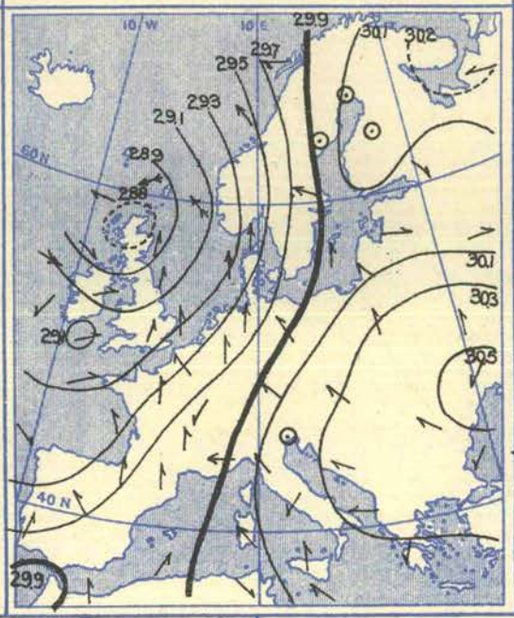
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 31st March.

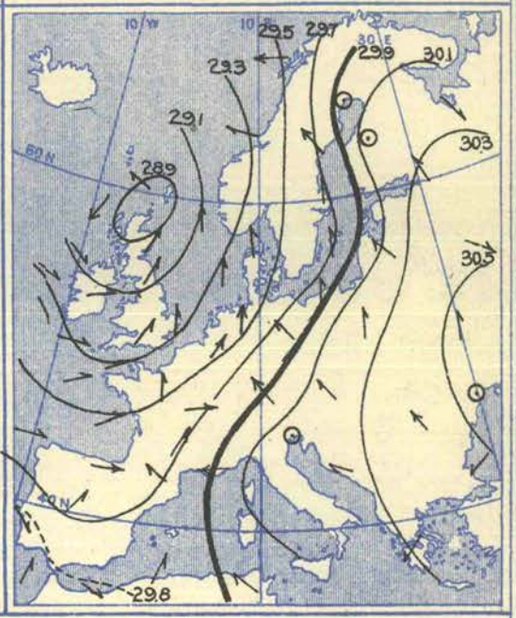
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning temporarily fine over the eastern parts of Great Britain, but very changeable over western and northern Europe generally, with rain or snow in several places. Fine in the extreme north of Scandinavia and also over south-eastern Europe, and at many of the Spanish and Italian stations. Rain or snow falling during day over nearly the whole of the western, northern, and central countries—heavily in places.

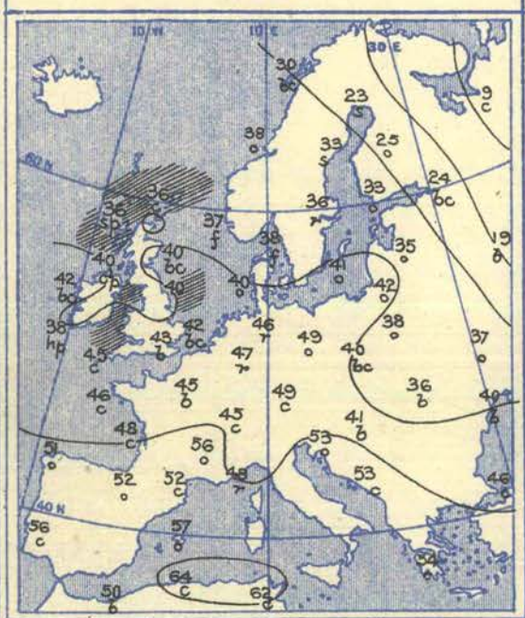
Temperature risen generally, but fallen a little on our own western coasts. Morning readings highest, 65° at Algiers, 64° at La Calle, and 62° at Palma; above 50° at most of the Mediterranean and Spanish Coast Stations. Lowest, −5° Fahr. at Haparanda, + 4° at Archangel, 14° at Hernösand, and 16° at Kuopio; below the freezing point over the greater part of Russia and Scandinavia, and very little above it in central Scotland. Rising during day to 50° and upwards over the central and southern parts of England, but remaining below 45° on our extreme north and north-west coasts. Exceeding 60° in many parts of southern Europe, and reaching 70° at Bilbao.

Wind moderate from the Westward or North-Westward on our western coasts, but from the South-Westward or Southward in most parts of Great Britain, France, and Spain. Light to moderate from the Southward in Germany and strong from the same quarter in Denmark; blowing a gale from the South-Eastward in the south of Scandinavia, and from the Eastward in the Shetlands; Easterly over Italy and the extreme south of France; South-Easterly in Austria. No important change occurring during day.

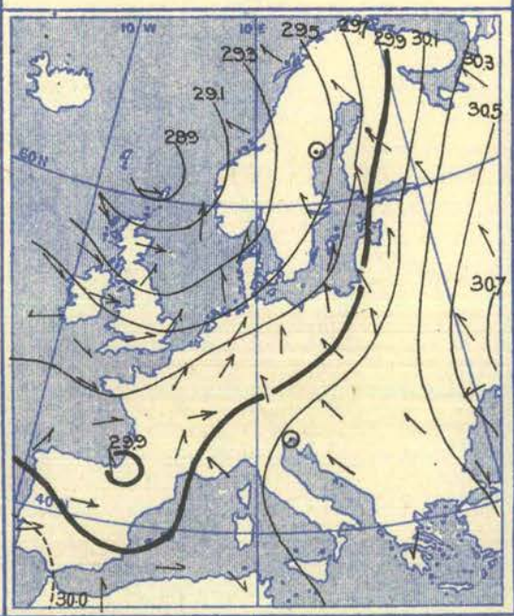
Barometer highest, 30·5 ins. and upwards in the extreme south of Russia; 30·1 ins. and upwards in an anticyclone covering all the more south-eastern parts of the Continent, and also in another system over the north of Russia. Lowest, 28·8 ins. and less in a depression with its centre over the north of Scotland. Depression moving slowly north-eastwards later. Barometer rising in most parts of the United Kingdom.

Monday, 1st April.

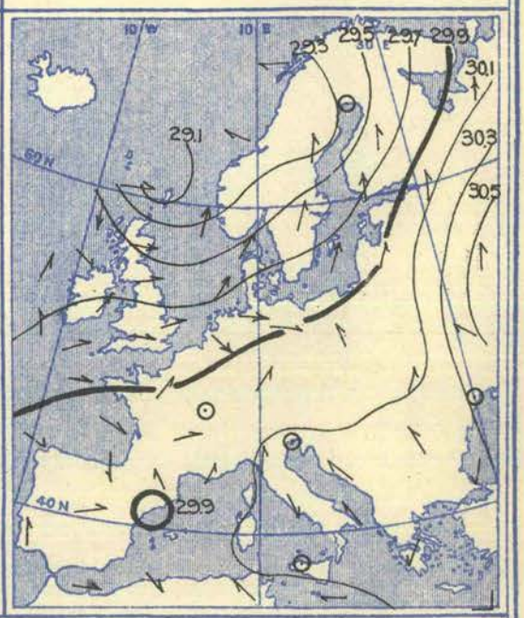
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of the United Kingdom, the north of France, and at most of the Russian and Hungarian stations, cloudy or dull elsewhere, with snow showers in the Hebrides, and hail at Valencia (Ireland) and Holyhead. Rain in western Germany, and at Belfort; rain or snow over the south of Sweden and Gulf of Bothnia. Rain falling later in the west and north of our Islands and central and southern France.

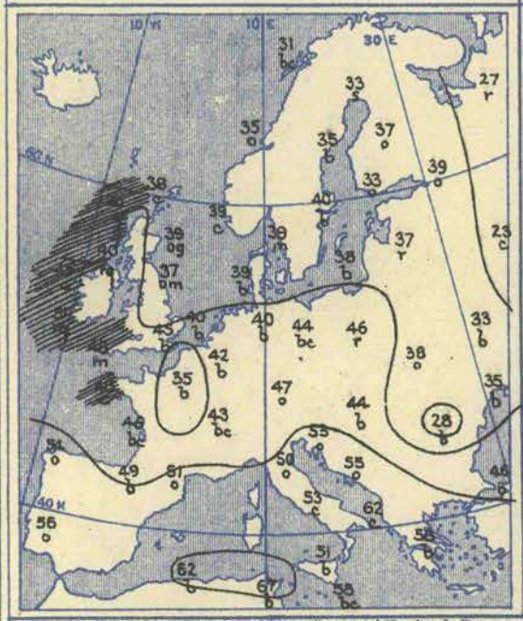
Temperature fallen over Spain and the south-west of France, but risen briskly over Europe generally. Morning readings highest, 64° at Algiers, 62° at La Calle and Tunis, 57° on the Spanish coast, and about 53° over the Adriatic and Greece. Lowest, 9° at Archangel, 19° at Moscow, and below the freezing point over northern and eastern Russia generally. Lowest in our Islands, 36° at Stornoway, and 37° at Nairn and Parsonstown. Rising later to 50° or rather more at some of our western and southern stations, to 60° or more over Austria, Hungary, and southern Europe generally, to 69° at Perpignan, and to 79° at La Calle.

Wind fresh or strong from the Westward (North-West to South-West) over the United Kingdom, the Bay of Biscay, and Spain, moderate to fresh from the Southward or South-Westward nearly all over the Continent, but light Easterly winds prevailing over the extreme south-eastern countries. Wind backing to the Southward in Ireland later, and direction becoming variable over southern Europe.

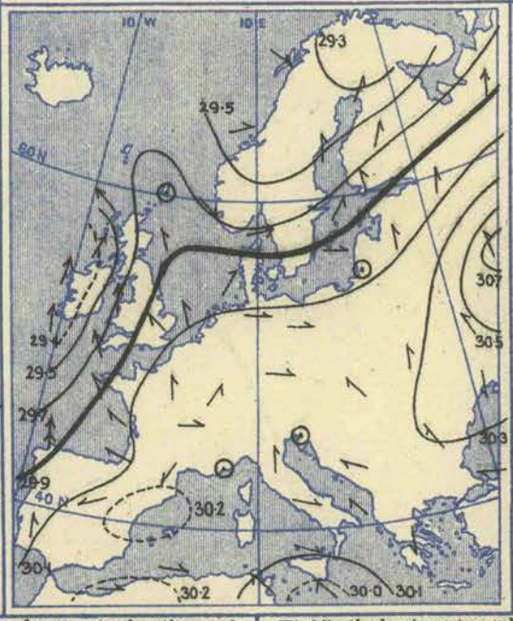
Barometer highest, 30·7 ins. and upwards over south-eastern Russia. Lowest, 28·9 ins. and less in a depression to the northward of Scotland, and below 29·6 ins. over the whole of the United Kingdom, the North Sea, Netherlands, Denmark, and Scandinavia. Shallow complex depression appearing over the Mediterranean later, and another disturbance approaching Ireland from the Atlantic. Nortern depression moving slowly north-eastwards and Russian anticyclone decreasing slightly in intensity.

Tuesday, 2nd April.

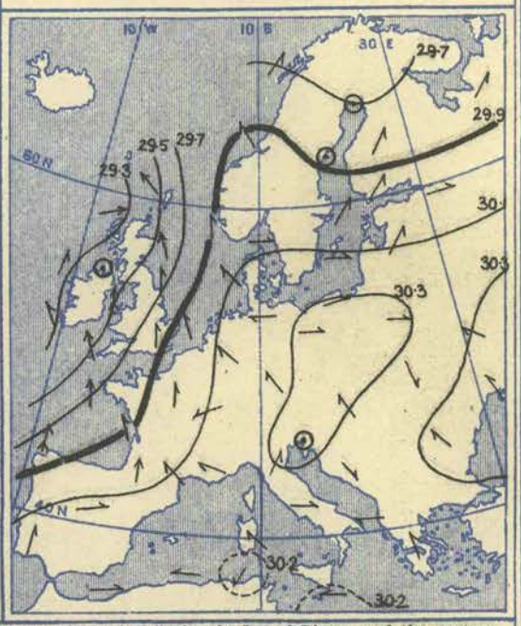
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the south-east of England, France, and most parts of southern and south-eastern Europe. Cloudy or dull elsewhere, with rain in Ireland and at a few Continental stations, snow at Haparanda. Rain falling later over the whole of the United Kingdom and the west and north of France. Amounts heavy at our own western stations.

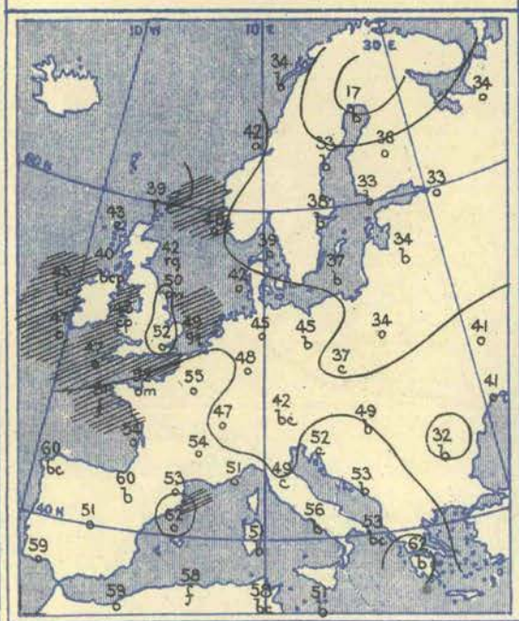
Temperature risen briskly over Ireland and northern Europe, fallen decidedly over France and north Germany. Morning readings highest, 67° at Tunis, 62° at Algiers and Brindisi, 63° at Barcelona, 59° at Cagliari, about 56° on the Portuguese coasts; highest in our Islands, 51° at Valencia. Lowest, 23° at Moscow, 27° at Archangel, and 28° at Hermanstadt; below 40° over the whole of Russia, Scandinavia, and the eastern half of Great Britain. Thermometer rising to 50° or more in many parts of our Islands later, to about 60° in central Europe, to 73° at Biarritz, and 77° at Oran.

Wind Southerly, strong to a gale, over the west of Spain, the Bay of Biscay, and the western half of the United Kingdom; moderate Southerly or South-Easterly on our eastern coasts. North-Westerly in Norway (a gale at Skudesnaes) and moderate from the South-Westward over Sweden, the Baltic, and north of Russia. Very variable over southern and central Europe and the Mediterranean, and generally light in force. Southerly current increasing in strength and extending to France, the North Sea, and Norway later, but no material modification elsewhere.

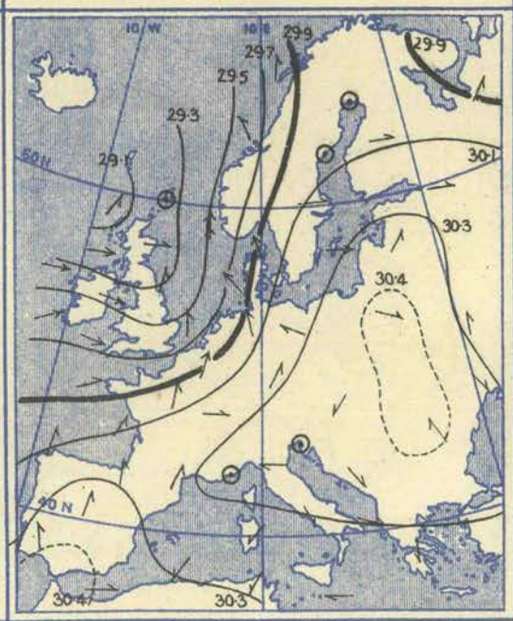
Barometer in morning highest, (1) 30·7 ins. and upwards in an anticyclone having its centre in the neighbourhood of Moscow; (2) 30·2 ins. and upwards in an irregularly shaped area over the Adriatic, Italy, a considerable part of France and south-western Germany; (3) about 30·2 ins. over Algeria. Lowest, 29·4 ins. and less over and to the westward of Ireland and also in another system over the north of Scandinavia; 30·0 ins. and less in a disturbance between Malta and Tunis. The Irish and Scandinavian depressions both moving north-eastwards later, and that over the Mediterranean dispersing.

Wednesday, 3rd April.

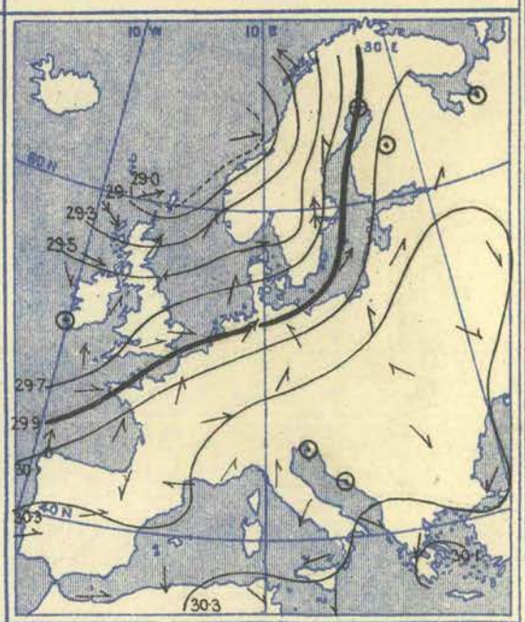
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on many parts of our own western coasts but dull and unsettled over western Europe as a whole, with rain at several of the English stations as well as in the east of Scotland. Fair or fine in most of the northern, eastern and central countries, but dull over the central and southern parts of Russia. Improvement taking place later in the north of our Islands, but heavy rain falling at night over the south and east of England and the neighbouring parts of France,—as much as 1·2 ins. at Cherbourg.

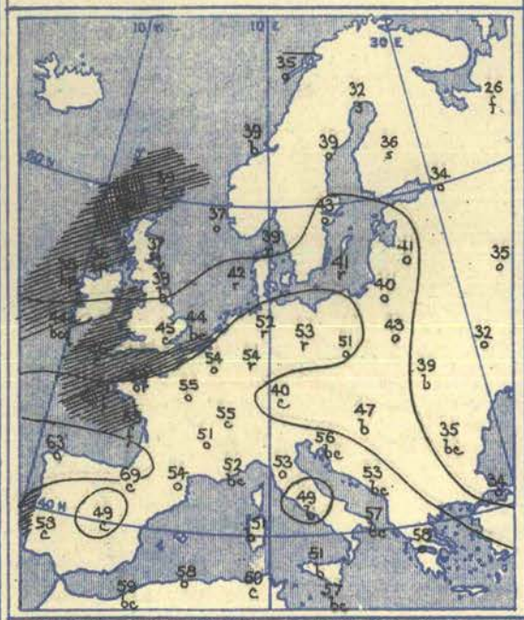
Temperature risen over western Europe generally, but fallen in the eastern and central countries. Morning readings highest, 68° at Bilbao, 62° at Barcelona and Patras, and 60° at Biarritz and Corunna; above 55° at most of the Algerian stations, and slightly above 50° over central England. Lowest, 17° at Haparanda, 26° at Uleaborg, and 33° at Hernösand, Hangö and Helsingfors. Rising during day to between 50° and 55° in many parts of the United Kingdom and reaching 58° in London and at Yarmouth. Exceeding 60° in France, and exceeding 65° over southern Europe, the highest reading reported being 73° at Bordeaux.

Wind moderate to strong from the Westward on our own western and northern coasts; Southerly in most other parts of western Europe and strong in force in many places. Variable over the south of France and northern Italy: Northerly or North-Westerly in the south of Italy. Calm in the Gulf of Bothnia; light from the Westward over northern Russia and the south of Sweden. Subsequently veering to the South-Westward over the western countries generally, but backing to the Southward on our own extreme south-west coasts.

Barometer highest, 30·4 ins. and upwards over Poland and eastern Austria, 30·2 ins. and upwards in an anticyclone covering the whole of eastern and southern and the greater part of central Europe. Lowest, 29·1 ins. and less in a depression with its centre to the north-westward of the Hebrides, small secondary systems reported over various parts of Great Britain. Main and secondary systems subsequently moving away to the north-eastward, but new depression advancing to the mouth of the English Channel and moving rapidly north-eastwards across England at night.

Thursday, 4th April.

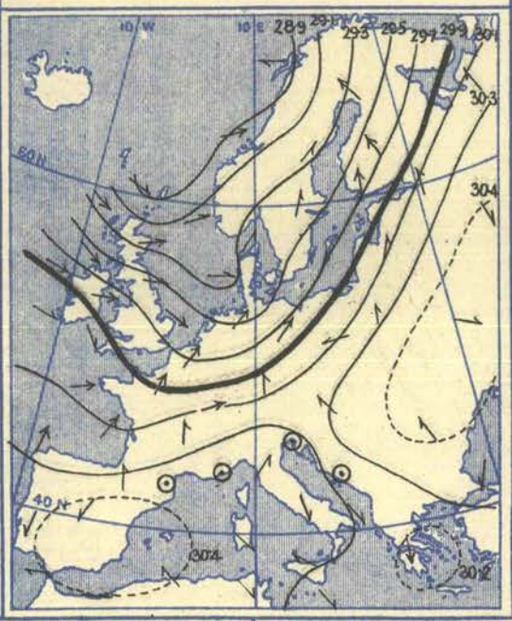
Temperature and Weather. 8 a.m.



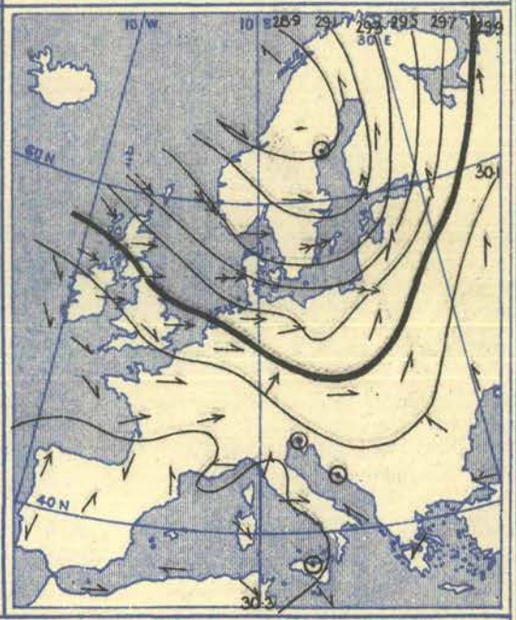
Weather in morning fair or fine over the United Kingdom generally, but snow or hail showers reported in the northern parts both of Ireland and Scotland. Dull and unsettled over the western, northern, and central parts of the Continent, with rain in many places, and snow in Lapland and Finland; fine in Austria and Italy. No important change occurring during day.

Temperature fallen in our Islands and also in the west of Norway, risen in most other localities. Morning readings highest, 69° at Biarritz, 63° at Corunna and Oporto, and 60° at San Fernando and La Calle; above 55° in many parts of southern Europe. Lowest, 26° at Archangel, 32° at Haparanda and Kiev, and 34° at Hangö and St. Petersburg as well as at Nairn; below 40° over the northern parts of the United Kingdom generally. Rising during day to 50° and upwards in several isolated parts of Great Britain, and to 55° in London; exceeding 70° over the Spanish Peninsula and at some stations in Austria and the south of France, and reaching 79° at Bilbao.

Barometer and Wind. 8 a.m.



6 p.m.



Wind Westerly or North-Westerly over our Islands, and strong in force on many parts of our northern coasts. South-Westerly or Southerly over the western and northern parts of the Continent generally; but South-Easterly or Easterly in the north of Scandinavia. Calm or variable over Austria and the southern parts of France and Russia; Northerly or North-Westerly in Italy; North-Easterly over the central and southern parts of Spain. Subsequently increasing to a gale from the Westward on the north-east coasts of Great Britain; veering to the Westward also over the western parts of the Continent.

Barometer highest, 30·4 ins. and upwards over Spain and the adjacent parts of the Mediterranean, and also in an elongated area extending north-eastwards from eastern Austria to central Russia. Lowest, 28·9 ins. and less in a large depression, with two minima lying off the west of Norway; 29·3 ins. and less in a secondary system off the south of that country. Depressions subsequently moving eastwards or north-eastwards, and barometer rising briskly over the whole of the United Kingdom.

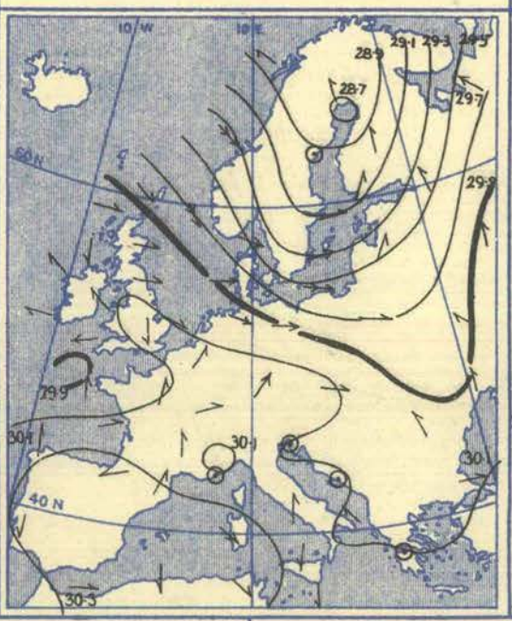
Friday, 5th April.

Temperature and Weather. 8 a.m.

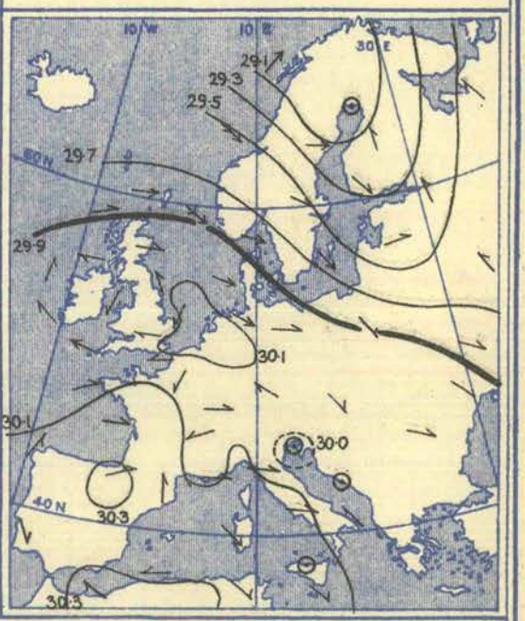
Weather in morning fine in the north and east of our Islands, and also in Denmark, Germany, and the Netherlands. Cloudy or dull in most other parts of Europe, with rain in the south-west of our Islands, the west of France, and northern Italy, as well as in the extreme northern parts of Sweden and Russia. Fine in Greece and also in Portugal. Rain falling later in the west and extreme north of our Islands generally, and also in the west and north of France.

Temperature fallen in all but the southern countries. Morning readings highest, 68° at Oporto, 67° at Lisbon, 64° at Corunna, and 61° at Patras; above 55° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, 32° at Moscow, 33° at Archangel, and 35° at Haparanda; below 40° in most parts of northern and north-western Europe. Rising later to 50° or slightly above it at several of our own western and northern stations, but remaining below 45° at some places in the east and south of England. Exceeding 70° in many parts of southern Europe, and reaching 83° at Perpignan.

Barometer and Wind. 8 a.m.



6 p.m.

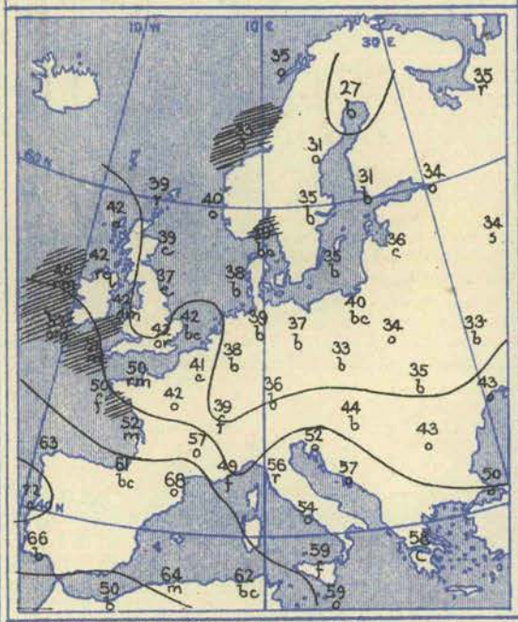


Wind light to moderate from the South-Westward in the west of France, but from the Eastward in all the more south-western parts of the United Kingdom, light from the Westward in the north and east of our Islands; strong to a gale from the North-Westward in Norway and Denmark, South-Westerly over the Baltic, Southerly over Russia, variable in Italy, Easterly or North-Easterly over the Spanish Peninsula. Easterly wind settling later in most parts of England; no important change occurring elsewhere.

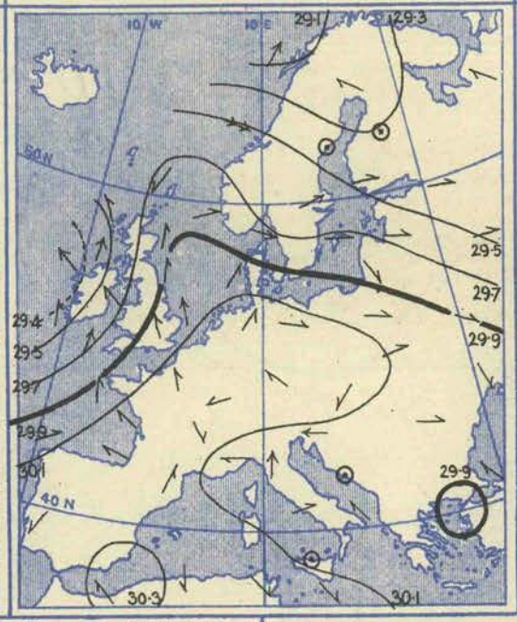
Barometer highest, 30·3 ins. and upwards over Spain, Algeria, and the neighbouring parts of the Mediterranean. Lowest, 28·7 ins. and less in a depression with its centre over the northern part of the Gulf of Bothnia; 29·9 ins. and less in a shallow disturbance near the mouth of the St. George's Channel. Both depressions partially filling up later, but new disturbance approaching our own extreme western coasts at night.

Saturday, 6th April.

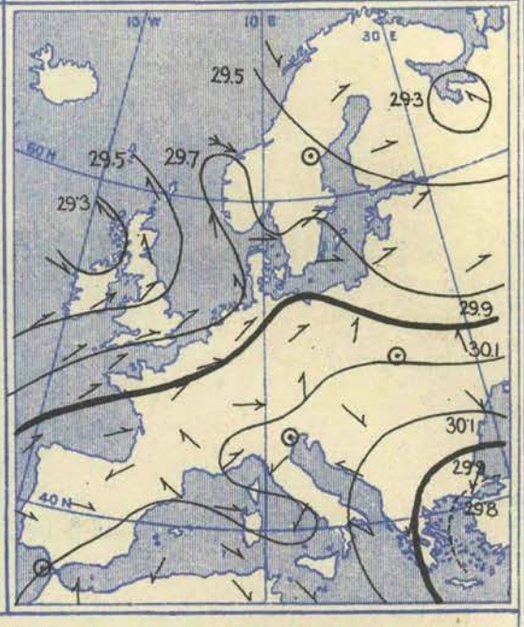
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy over all the more western and southern parts of our Islands, but fair or fine on the east coasts of Great Britain. Dull over the greater part of France and Italy, with fog or mist in several places and with rain at Florence; fine in most of the northern and central countries, but dull in the west of Norway and the northern and central parts of Russia, with rain at Archangel and snow at Moscow and Christiansund. Rain falling later in Scotland, as well as in the north of France, Germany and the Netherlands.

Temperature risen over the United Kingdom but fallen at most of the Continental stations. Morning readings highest, 72° at Bilbao and Oporto, 68° at Perpignan, and 66° at Lisbon; above 55° in most parts of southern Europe and above 50° on our own extreme south-west coasts. Lowest, 27° at Haparanda, 31° at Hernosand and Hango and 32° at Uleaborg and Helsingfors. Rising during day to 55° and upwards at many of the English and Irish stations, and to 59° at Oxford. Exceeding 65° in several parts of Italy and exceeding 80° over the Spanish Peninsula and the extreme south of France, the highest reading reported being 91° at Bilbao.

Wind light to fresh from the Southward (South-East to South-West) over our Islands, the Netherlands and the west and north of France. Westerly (South-Westerly to North-Westerly) over northern and central Europe, and strong to a gale in force on the Norwegian coasts; Northerly to Easterly in Austria; variable over Italy and the Spanish Peninsula. Subsequently veering to the South-Westward or Westward at many of our own western and southern stations, and increasing to a slight gale in the Irish Sea.

Barometer highest, 30·3 ins. and upwards over Morocco, 30·1 ins. and upwards in an anticyclone covering the greater part of central and south-western Europe. Lowest, 29·1 ins. and less in a depression lying off the northern part of the Norwegian coasts, 29·4 ins. and less in another disturbance off the west of Ireland. Depression off Norwegian coasts subsequently moving eastwards. Irish disturbance advancing north-eastwards to the west of Scotland and barometer rising unsteadily on our own western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week barometrical pressure was highest in an anticyclone of increasing intensity, which lay at first over southern and subsequently over central Russia. Towards the middle of the period, however, this system gradually became reduced in height and moved south-westward, while a new high pressure area appeared over Spain and the western parts of the Mediterranean. Under the influence of one or other of these systems the weather over the southern countries was mostly fair and dry, with high temperatures over Spain and the extreme south of France.

Over north-western and northern Europe the conditions were rendered very unsettled by depressions which advanced from the Atlantic, the centres of most of the larger disturbances skirting our own extreme west and north coasts, while their secondaries moved in a more southerly track. The winds therefore varied in direction from between South and West, and afterwards blew strongly or with the force of a gale, while the weather was in an extremely changeable state, rain falling almost daily in our Islands and snow in many parts of Scandinavia and northern Russia. In the western parts of the United Kingdom the rainfall was often heavy, the total for the week being over 3 ins. at Valencia and over 3½ ins. at Glenlee. Temperature in these islands was, however, much higher than in the preceding week.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	29·6	− 1·1	32	− 1	BRIGHTON	24·7	−11·8	27	−13
STRATHPEFFER SPA	32·6	+ 5·6	35	+ 5	WORTHING	27·8	?	31	?
EDINBURGH	35·8	+ 9·8	39	+11	BOGNOR	29·7*	?	33*	?
MORPETH	48·5	?	53	?	WATERGATE (Emsworth)	21·1	?	23	?
NEWCASTLE-ON-TYNE	39·7	?	44	?	WESTBOURNE (Emsworth)	26·2*	−11·6	29*	−13
OSWALDKIRK (Yorkshire)	33·3	+ 4·2	37	+ 5	VENTNOR HOSPITAL	24·5	−14·6	27	−16
LOWESTOFT	27·2	?	30	?	SOUTHPORT	34·5	?	38	?
HOLLESLEY BAY	30·2	?	34	?	RHYL	43·5*	?	48*	?
SHEFFIELD	27·3	?	30	?	COLWYN BAY	38·6	?	42	?
WORKSOP	20·4	− 6·6	22	− 8	ABERDOVEY	39·5*	?	43*	?
THURCASTON (Leicestershire)	21·9	− 6·1	24	− 7	TENBY	25·2	−13·8	28	−15
MARGATE	27·7	− 5·3	31	− 5	NEWQUAY				
BROADSTAIRS	26·1	?	29	?	TORQUAY	27·7	−10·2	31	−11
EASTBOURNE					GUERNSEY	24·3*	−16·6	27*	−18

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 15.] *Third Series* — WEEK ENDING SATURDAY, APRIL 13TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 86.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	30	47·6	36·0	41·5	1 below	16	− 6	23	+ 3	110	−38	526	+36
	1. SCOTLAND, EAST	59	28	49·4	35·1	41·9	1 below	21	− 8	27	+ 7	96	−101	600	+54
	2. ENGLAND, N.E.	61	28	51·9	37·0	44·1	1 above	36	+ 8	14	− 1	130	−78	490	+26
	3. ENGLAND, EAST	65	31	52·7	39·5	45·8	1 above	37	0	7	− 9	151	−103	531	+22
	4. MIDLAND COUNTIES	62	32	52·8	37·6	44·8	0 (average)	38	− 1	12	− 5	160*	−120	549	+39
	5. ENGLAND, SOUTH	61	35	52·0	41·2	46·3	0 (average)	33	− 8	2	− 8	172	−129	430	+43
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	28	49·4	36·3	42·5	2 below	27	− 4	16	+ 2	145	−72	441	+46
	7. ENGLAND, N.W.	58	32	50·8	38·7	44·5	1 below	31	− 1	9	− 3	137	−91	442	+64
	8. ENGLAND, S.W.	60	32	51·7	40·8	46·0	0 (average)	33	− 5	3	− 5	214	−106	361	+60
	9. IRELAND, NORTH	56	31	50·0	37·3	43·3	2 below	29	− 6	13	+ 2	187	−97	355	+29
	10. IRELAND, SOUTH	58	31	52·7	39·0	45·5	1 below	37	− 4	8	0	266	−116	315	+68
	—CHANNEL ISLANDS	59	39	53·3	43·7	48·3	0 (average)	44	0	0	− 2	349	−75	160	+40

Rainfall. — Bright Sunshine.

	DISTRICTS. (See p. 86.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	13	6 more	77	+ 8	12·8	− 2·6	29	− 2	30	− 2	239	+ 1	23	0
	1. SCOTLAND, EAST	7	8	3 more	63	+ 7	8·1	− 0·2	29	− 2	31	− 3	243	−33	23	− 4
	2. ENGLAND, N.E.	5	4	0 (average)	64	+11	6·2	0·0	41	+ 8	43	+ 9	261	−12	25	− 2
	3. ENGLAND, EAST	6	8	5 more	63	+ 8	6·7	+ 0·7	35	− 4	37	− 4	266	−70	23	− 6
	4. MIDLAND COUNTIES	6	10	6 more	60	+ 9	8·5*	+ 1·5	30	− 3	32	− 3	220	−55	22	− 5
	5. ENGLAND, SOUTH	7	9	4 more	57	+ 5	8·1	+ 0·5	30	− 8	32	− 9	266	−71	24	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	15	7 more	61	− 2	13·6	− 2·1	33	− 1	35	− 1	285	+12	27	+ 1
	7. ENGLAND, N.W.	5	9	4 more	62	+ 6	8·3	− 0·5	47	+14	50	+15	300	+15	27	+ 1
	8. ENGLAND, S.W.	7	18	13 more	60	0	12·7	+ 1·1	34	− 5	36	− 6	312	−22	30	− 2
	9. IRELAND, NORTH	6	8	3 more	72	+ 6	10·3	+ 0·8	47	+15	50	+17	289	+13	27	+2
	10. IRELAND, SOUTH	5	8	2 more	61	− 1	11·1*	− 0·8	53	+17	57	+19	327	+ 8	30	0
	— CHANNEL ISLANDS	7	10	5 more	76	+13	11·0	− 1·7	38	− 7	40	− 7	302	−115	25	−11

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was again extremely unsettled in all parts of the Kingdom. Showers of rain or hail were very frequent, and thunderstorms were experienced in several places.

Temperature differed but little from the mean, being a little below it in the north and west, and slightly above it in some of the eastern districts. The highest of the maxima were recorded on Sunday, when they ranged from 65° in England E. and between 60° and 62° in most of the other English districts to 54° in Scotland W. During the latter half of the week the daily maxima were much lower, the thermometer often failing to reach 50°. The lowest of the minima, which occurred either during the middle or at the end of the period, ranged from 28° in Scotland E. and W. and England N.E. to 35° in England S. and to 39° in the Channel Islands.

Rainfall exceeded the mean in all districts excepting England N.E. The excess was large generally, especially over England and the north and west of Scotland. The fall in most parts of England was again more than twice as much as the average.

Bright Sunshine was deficient in most parts of Great Britain, but was considerably in excess over Ireland and over the north of England. The percentage of the possible duration ranged from 57 in Ireland S., 50 in Ireland N., and England N.W. to 32 in England S. and the Midland Counties, and to 30 in Scotland E.

Barometer and Wind.—Numerous depressions, both primary and secondary, passed over our Islands from the westward, and, as some of the systems were rather deep, fresh or strong winds from between South and West or North-West were very prevalent. Soon after the commencement of the period the wind attained the force of a moderate to fresh gale at many of our western stations. On Friday a moderate or fresh Northerly current prevailed throughout the Kingdom, but by the end of the week, when another low-pressure system had appeared in the west, Southerly to Westerly winds had become re-established.

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319 | 70 4 | 01.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	34	44·6	37·4	40·8	− 0·2	7	17	7	1·46	+ 0·96	*	*	*	*
	Stornoway	49	32	45·7	36·0	40·6	− 2·0	10	22	7	0·98	+ 0·37	39·1	+ 4·6	41	+ 5
	Wick	54	30	48·0	35·6	41·5	− 1·1	17	25	7	1·40	+ 1·00	*	*	*	*
	Lairg Ⓢ	58	31	51·4	33·9	42·2	+ 1·0	35	23	6	1·06	+ 0·48	*	*	*	*
	Glencarron Ⓢ	52	33	46·0	35·2	40·3	− 1·6	11	25	7	1·65	+ 0·53	*	*	*	*
	Fort Augustus Ⓢ	55	31	50·2	36·3	42.9	− 0·8	30	16	7	0·69	+ 0·17	20·9	− 4·4	22	− 4
	Fort William Ⓢ	50	33	47·6	37·6	42·4	− 1·7	21	12	6	1·73	+ 0·80	21·0	− 9·5	22	−10
1. SCOTLAND, E.	Nairn	59	32	50·0	35·7	42·5	− 0·8	30	18	6	0·80	+ 0·48	*	*	*	*
	Aberdeen	53	33	49·4	37·3	43·1	− 0·1	27	13	7	0·85	+ 0·36	34·5	0·0	36	0
	Braemar Ⓢ	50	28	44·5	33·0	38·5	− 1·4	7	32	7	0·73	+ 0·21	*	*	*	*
	Ochtertyre Ⓢ	58	28	50·6	34·4	42·1	− 1·6	33	21	6	0·64	+ 0·11	*	*	*	*
	Leith	58	32	52·4	36·4	44·0	− 0·2	38	16	6	0·57	+ 0·23	*	*	*	*
	Marchmont Ⓢ	55	28	49·7	33·9	41·4	− 0·9	22	31	7	0·97	+ 0·45	33·0	+ 1·0	35	+ 2
2. ENGLAND, N.E	Alnwick Castle	58	28	53·6	33·6	43·1	+ 0·6	43	24	4	0·54	+ 0·06	*	*	*	*
	Durham	57	30	52·5	34·9	43·3	0·0	39	20	4	0·30	− 0·15	37·6	+ 8·6	40	+10
	Shields	57	34	51·9	37·6	44·4	+ 1·1	35	12	5	0·17	− 0·21	*	*	*	*
	Scarborough Ⓜ	55	36	50·5	39·3	44·6	+ 0·8	30	8	6	0·47	+ 0·07	44·5	?	47	?
	Spurn Head	55	36	49·9	39·6	44·5	+ 0·7	28	7	4	0·34	+ 0·04	*	*	*	*
	Fulbeck (Lincolnshire)	61	33	52·8	37·0	44·5	+ 0·1	39	14	5	0·65	+ 0·27	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	63	34	53·5	40·3	46·6	+ 1·7	39	5	5	0·88	+ 0·50	36·0	+2·0	38	+ 2
	Yarmouth	59	33	50·9	39·6	45·0	+ 1·2	31	7	7	0·88	+ 0·50	*	*	*	*
	Geldeston	62	31	53·8	40·4	46·8	+ 2·0	40	4	6	0·75	+ 0·40	30·8	− 5·4	33	− 5
	Cambridge	65	52	54·8	38·6	46·3	+ 0·6	44	10	5	0·89	+ 0·55	33·3	− 1·9	35	− 3
	Felixstowe	58	33	51.2	40·2	45·4	+ 0·1	31	5	6	0·48	?	39·4	?†	42†	?†
	Rothamsted	61	33	52·1	37·7	44·6	− 0·1	36	12	6	1·13	+ 0·68	22·7	−10·4	24	−11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	33	54·6	35·6	44·6	− 0·4	45	18	5	0·30	− 0·08	*	*	*	*
	Loughborough	62	33	54·1	37·1	45·2	− 0·5	43	14	6	0·55	+ 0·17	*	*	*	*
	Colly Weston (Stamford)	62	33	53·4	37·4	45·0	+ 0·3	40	13	7	0·79	?	*	*	*	*
	Cheadle Ⓜ	59	32	51·5	36·8	43·8	− 0·1	34	15	5	0·88	+ 0·40	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	59	35	51 8	38·8	45·0	+ 0·4	34	9	7	0·87	+ 0·45	24·8	?	26	?
	Churchstoke Ⓜ	59	32	52·8	36·6	44·3	+ 0·7	39	15	6	1·32	+ 0·90	32·1	− 1·1	34	− 1
	Hereford (Belmont) Ⓜ	57	33	52·5	38·4	45·1	− 0·4	37	10	7	1·62	+ 1·24	*	*	*	*
	Cirencester	60	35	51·4	38·1	44·4	+ 0·1	33	11	7	1·82	+ 1·41	26·2	− 8·5	28	− 9
	Oxford	61	37	53·0	39·9	46·1	+ 0·1	38	6	7	0·82	+ 0·45	26·0	− 8·5	28	− 8
5. ENGLAND, S.	London	61	35	54·3	40·4	47·0	+ 0·2	42	4	6	0·81	+ 0·43	26·1†	− 1·9†	28†	− 2†
	Swarraton (Alresford) Ⓜ	59	35	53·5	39·5	46·2	+ 1·7	40	7	7	0·90	+ 0·46	*	*	*	*
	Dungeness	52	39	49·9	42·1	45·8	+ 0·4	27	0	7	0·57	+ 0·26	33·0	?	35	?
	Hastings (St. Leonards)	52	35	49·9	40·2	44·8	− 1·0	27	5	7	0·55	+ 0·12	29·0	−10·0	31	− 10
	Southampton	60	38	55·2	42·6	48·6	+ 1·3	46	0	7	1·25	+ 0 81	24·4	−13·2	26	− 14
	Portland Bill	52	40	50·1	43·0	46·4	− 0·9	31	0	7	0·90	?	*	*	*	*
	Shaftesbury Ⓜ	56	38	51·4	40·3	45·6	+ 0·7	32	5	7	0·96	+ 0·40	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	52	31	48·2	37·4	42·5	− 2·3	23	13	7	2·35	+ 1·40	*	*	*	*
	Glasgow	54	32	49·1	37·6	43·1	− 0·8	26	12	6	0·77	+ 0·27	33·1	+ 5·1	35	+ 6
	Glenlee Ⓢ	54	28	50·9	33·9	42·0	− 1·4	25	23	6	1·27	+ 0·57	*	*	*	*
	Douglas (Isle of Man)															
7. ENGLAND, N.W.	Newton Reigny	55	32	50·7	36·0	43·0	+ 0·3	32	17	6	0·61	?	44·8	?	47	?
	Stonyhurst	54	33	50·8	38·9	44·6	+ 0·4	31	9	5	0·97	+ 0·37	45·0	+12·4	48	+14
	Blackpool Ⓜ	52	34	50·5	37·0	43·4	− 1·5	31	14	4	0·66	+ 0·24	45·9	+13·0	49	+14
	Manchester (Prestwich)	56	33	52·3	38·4	45·0	+ 0·3	36	10	6	1·70	+ 1·23	38·0	?	40	?
	Liverpool Obsy. (Bidston)	55	36	50·6	38·7	44·4	− 1·4	31	9	6	0·91	+ 0·54	40·2	?	43	?
	Chester (Hawarden Bridge)	58	35	52·3	39·1	45·4	− 1·1	36	8	4	0·58	?	*	*	*	*
	Llandudno Ⓜ	53	39	51·0	41·1	45·8	− 0·7	30	3	5	0·59	+ 0·17	51·1	+17·1	54	+18
	Holyhead	51	39	48·4	40·1	44·1	− 2·0	23	5	5	0·86	+ 0·41	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	32	51·6	38·7	44·8	− 0·5	33	9	7	1·82	+ 1·16	*	*	*	*
	Pembroke	51	38	48·0	41·1	44·4	− 1·2	21	3	7	1·67	+ 1 22	30·4	− 9·6	32	−10
	Clifton	59	39	52·3	41·4	46·6	+ 0·6	35	2	7	1·59	+ 1·09	*	*	*	*
	Bath	60	39	53·6	41·0	47·0	+ 0·5	39	3	7	1·22	?	?	?	?	?
	Arlington (N. Devon)	54	34	50·4	38·6	44·2	− 0·2	30	10	7	2·96	+ 1·27	*	*	*	*
	Cullompton Ⓜ	59	37	54·1	40·5	47 0	+ 0·1	41	4	7	1·94	+ 1·38	27·7	− 7·2	29	− 8
	Falmouth	54	38	51·5	41·9	46·5	+ 0·7	32	0	7	1·89	+ 1·22	35·6	− 5·0	38	− 5
	Plymouth	53	38	51·7	42·9	47·1	− 0·5	36	0	7	1·53	+ 0·99	35 8	− 4·0	38	− 3
9. IRELAND, N.	Malin Head	50	36	47·0	39·6	43 1	− 2·1	18	7	7	0·70	?	*	*	*	*
	Londonderry	55	34	49·6	37·2	45·1	− 2·9	28	13	7	0·72	+ 0·15	*	*	*	*
	Edenfel (Omagh)	56	32	50·1	35 1	42·2	− 1·7	30	19	7	1·21	+ 0·67	*	*	*	*
	Blacksod Point	51	37	49·3	39·1	44·0	− 2·6	26	8	7	1·22	?	*	*	*	*
	Markree Castle	55	31	51·6	35·9	43·4	− 1·8	35	17	6	0·78	+ 0·21	48·9	+16·5	52	+19
	Armagh	55	32	52·3	36 7	44·1	− 0·6	37	15	5	0·62	+ 0·14	44·9	+13·6	48	+15
	Donaghadee	52	35	50·0	37·4	43·4	− 1·6	29	13	6	0·60	+ 0·15	*	*	*	*
10. IRELAND, S.	Dublin	56	36	53·5	39·8	46·3	− 0·5	39	6	3	0·29	− 0·16	51·2	+15·0	54	+15
	Parsonstown	56	31	53 3	36·3	44·4	− 1·2	41	16	5	0·42	− 0·08	58·1	+14·1	62	+27
	Kilkenny	54	34	52·0	37·6	44·5	− 1 9	36	12	6	0·62	+ 0·10	*	*	*	*
	Roche's Point	54	37	51·0	40 4	45·5	− 2·0	31	4	5	1·25	+ 0·52	*	*	*	*
	Valencia	53	38	51·6	41·0	46 1	− 1·8	33	3	7	1·66	+ 0·77	50·9	+14·0	54	+15
	Killarney	57	32	54·8	38·8	46·4	− 0·4	44	9	7	0·79	0·00	*	*	*	*
	Foynes	58	33	52·8	39·0	45·6	− 0·9	38	8	5	0·84	+ 0·26	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	39	52 7	42·6	47·4	− 0·9	38	0	7	0·77	+ 0·27	38·7	?	41	?
	Jersey	59	42	53·9	44·7	49·1	+ 0·6	50	0	7	1·27	+ 0·80	39·3	− 4·2	42	− 5

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

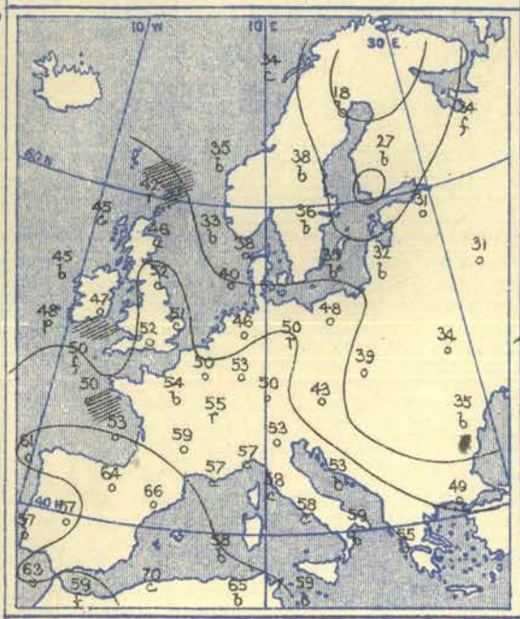
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 7th April.

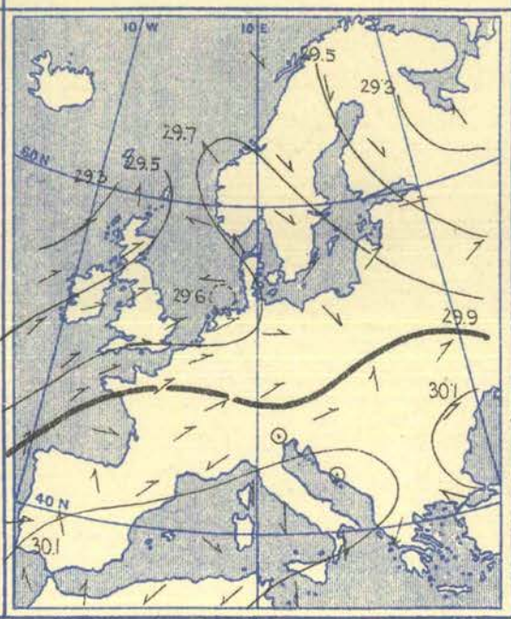
Temperature and Weather.

8 a.m.

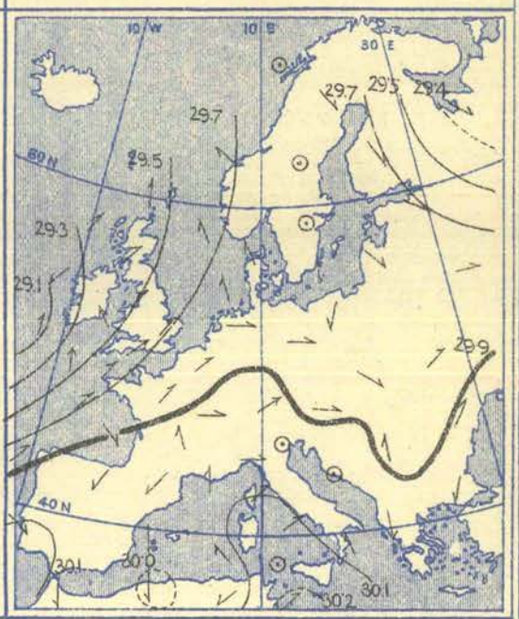


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Ireland, Scotland and northern Europe generally, dull over Germany, France and the south of England, with rain at Cape Griz Nez, showers at Valencia. Rain later (interspersed with intervals of bright sunshine) all over the British Islands, Germany and at Belfort, hail in some localities, weather remaining fine over Scandinavia and the greater part of France.

Temperature changing rather fitfully. Morning readings highest, 70° at Algiers, 65° at Tunis, 64° at Biarritz, 50° and more over the greater part of France and western Germany. Lowest, 18° at Haparanda, 25° at Kuopio, 30° to 34° over Russia, but above 40° even at our northern stations. Rising later to 62° at Loughborough, to 61° at Oxford and in London, to 66° at Frankfürt, 68° at Biarritz, and 77° at Lyons, but falling considerably at night.

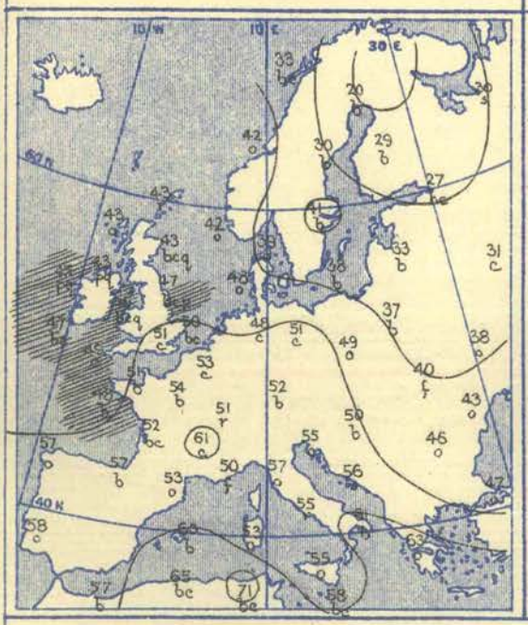
Wind (1) South-Westerly (West to South) and light over the British Islands and France, Easterly and South-Easterly on the eastern shores of the North Sea, Westerly over Germany, (2) North-Westerly to Northerly over Lapland and Finland, South-South-Westerly at Moscow. Becoming more Southerly later over the major part of our Islands, and Easterly to North-Easterly in the north of Ireland; blowing a moderate gale at Scilly.

Barometer in morning highest, 30·1 ins. and more to 30·0 ins. over the Mediterranean and southern Europe. Lowest, (1) 29·3 ins. off the north-westward of Scotland, and (2) 29·23 ins. at Archangel. Falling quickly later over Ireland and the greater part of England, and gradients for Southerly winds becoming steep over our southern counties.

Monday, 8th April.

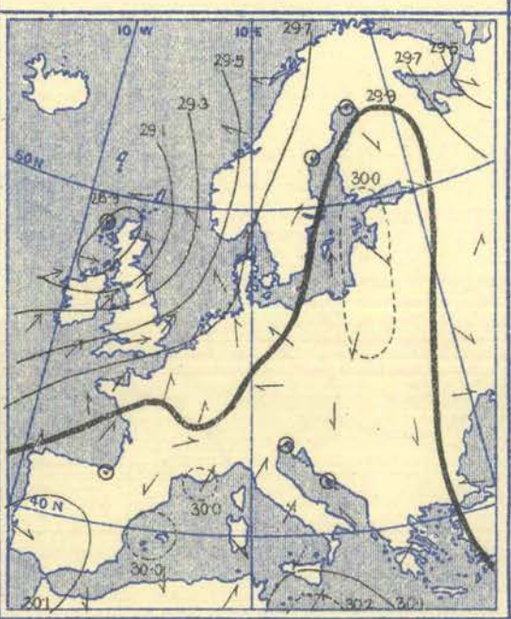
Temperature and Weather.

8 a.m.

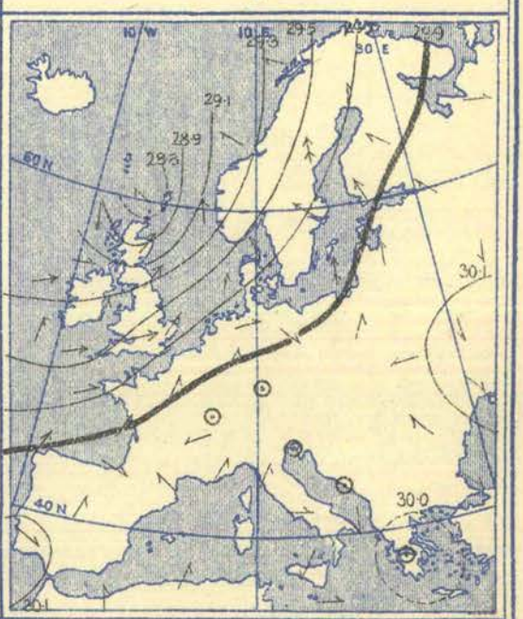


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over Scotland and south Wales, dull over Norway, fine over France and Germany. Rain occasionally later all over western and north-western Europe, but the showers separated by lengthy bright intervals; remaining fine in the south of France. Thunder reported at Spurn Head and Oxford.

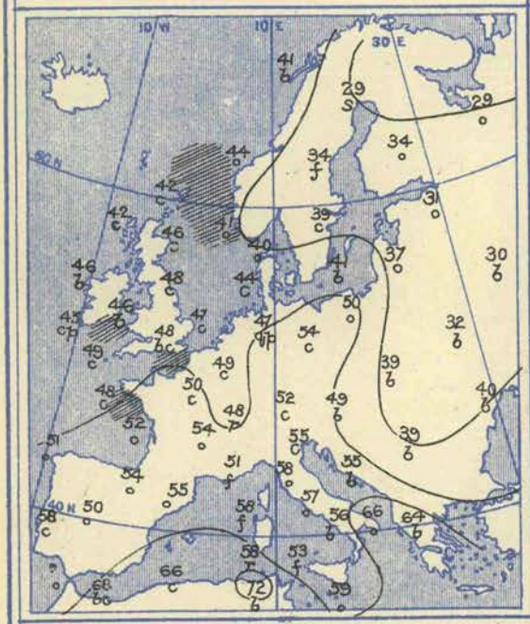
Temperature fallen over Great Britain, risen over the countries lying to the eastward of the North Sea. Morning readings highest, 71° at La Calle, and exceeding 60° at several of the stations situated on the southern shores of the Mediterranean, 50° and more all over southern Europe, 51° at Berlin and in London, 49° at Scilly. Lowest, 20° at Haparanda, 29° at Hangö, 31° at Moscow, 37° at Warsaw. Rising later to 50° or more all over England, to 56° at Loughborough, 58° in London, 64° at Paris, 68° at Berlin and Munich, and 72° at Lyons.

Wind (1) very variable over the west and north of Scotland, Westerly in the north of Ireland, South-Westerly strong to a gale over England, South-Easterly to Easterly in Norway, (2) light North-Westerly over Finland, (3) very light and variable over the southern half of the Continent. Moderating slightly in force over our Islands later; not much material change elsewhere.

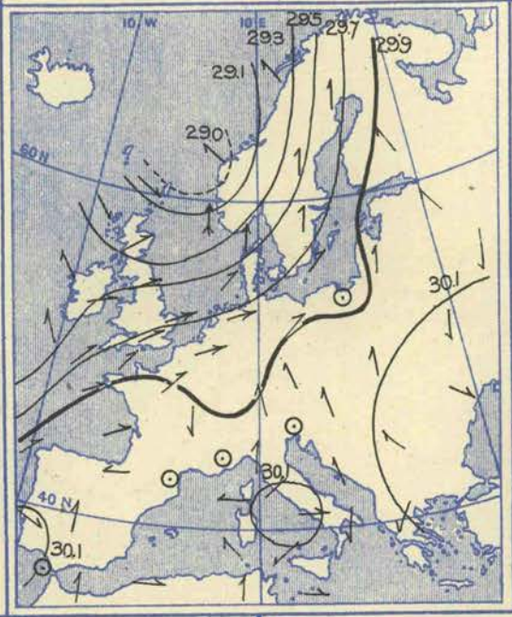
Barometer highest, 30·23 ins. at Malta, 30·1 ins. and more over the south-western parts of Spain, and exceeding 30·0 ins. over south-western and southern Europe generally, as well as over western Russia and the Gulf of Riga. Lowest, 28·9 ins. and less in an elongated disturbance over the north-west of Scotland and north of Ireland; gradients steep over our Islands, slight on the Continent. The depression moving north-north-eastwards later, but a shallow secondary appearing at the mouth of St. George's Channel.

Tuesday, 9th April.

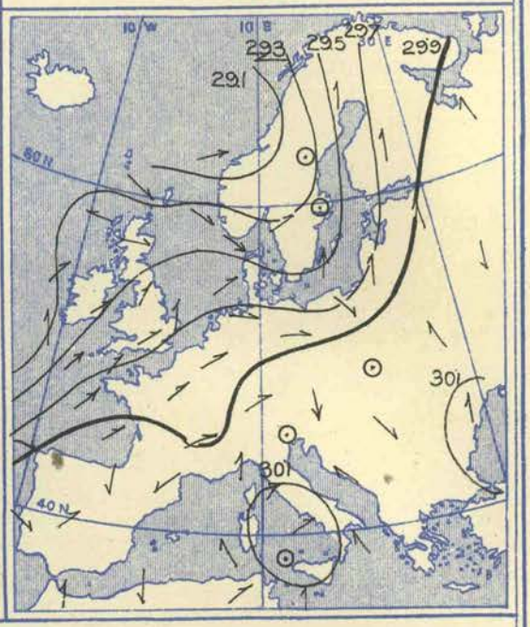
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of southern and eastern Europe, fine over England, dull, unsettled and showery both in Scotland and Ireland. Rain at times later in all parts of the British Isles and north-western Europe, but no large amounts reported—hail in places—and thunder at Donaghadee; intervals between falls of rain fine and bright.

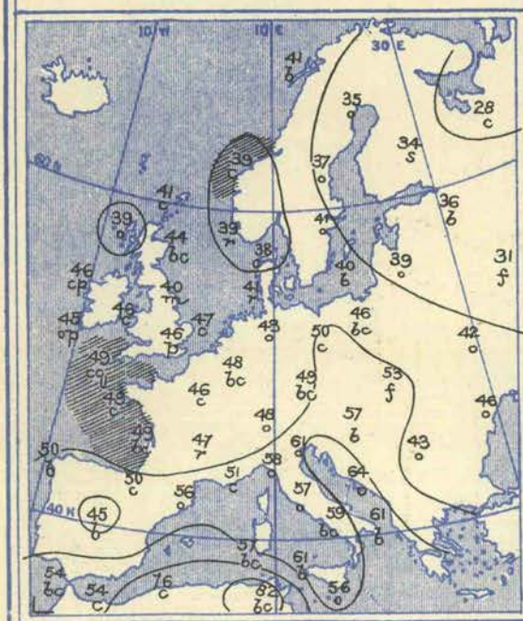
Temperature not changing much in our Islands, but rising over northern Europe. Morning readings highest, 72° at La Calle, 68° at Oran, 66° at Algiers and Brindisi, 59° at Bilbao, 54° at Berlin, 49° at Scilly, 48° at Shields, 46° at Roche's Point. Rising during the day to more than 50° all over England and Ireland, 58° in London, 62° at Paris, 64° at Berlin, 72° at Munich and to more than 80° at all the Algerian stations.

Wind, (1) light and variable over the south-western, southern, central and eastern countries; (2) Southerly over northern Europe, but North-Westerly in Scotland; (3) South-Westerly over England, South-Easterly and Southerly in Ireland. Very little change in our Islands later, but falling light and variable all over Scotland. Force over England and Ireland very moderate.

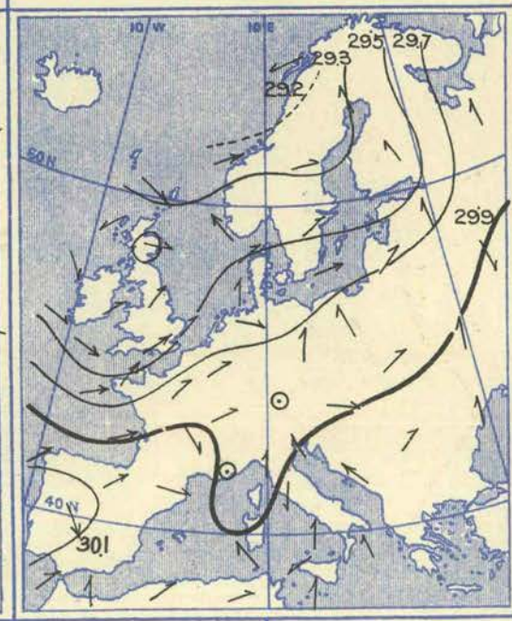
Barometer highest, 30·1 ins. and more to 30·0 ins. over the whole of south-western, southern and eastern Europe. Lowest, 29·0 ins. in the west of Norway and adjacent parts of the Norwegian sea; 29·4 ins. off the west of Ireland; gradients over north-western Europe steep. Rising later over Scotland and Norway; falling over Ireland, England and the west of France.

Wednesday, 10th April.

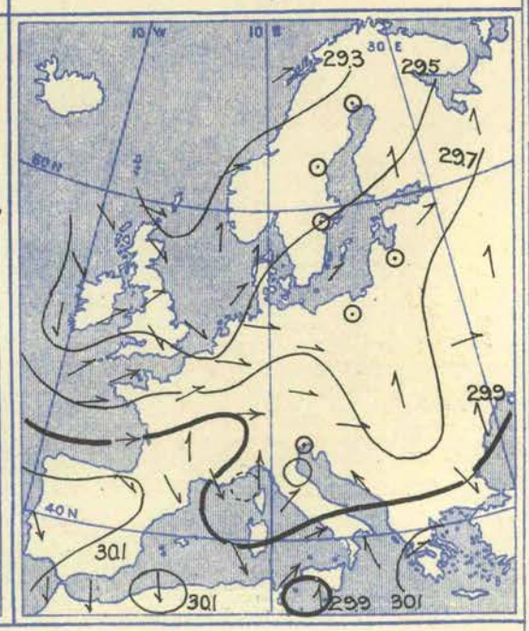
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fair generally over the southern and eastern countries of Europe, very changeable at those in the north-west; rain and sleet showers in several parts of our islands. Showers later over all parts of our area, but no large amounts reported; hail in some places, remaining fair in the extreme south.

Temperature little changed, but inclined to fall in Ireland, France and North Germany, rising in Austria and the Balkan Peninsula. Morning readings highest, 82° at La Calle, 76° at Algiers, 75° at Tunis, 57° at Bilbao, 50° at Berlin, 49° at Scilly. Lowest, 28° at Archangel, 31° at Moscow, 35° at Kharkov, 34° at Wick, 35° at Hangö, 39° at Stornoway, 40° at Shields and Loughborough. Rising later but not so much as on 9th, attaining a maximum of 52° in London, 57° at Berlin and Lorient, 59° at Paris and Biarritz, 63° at Lisbon, 91° at Biskra, 90° at Laghouat.

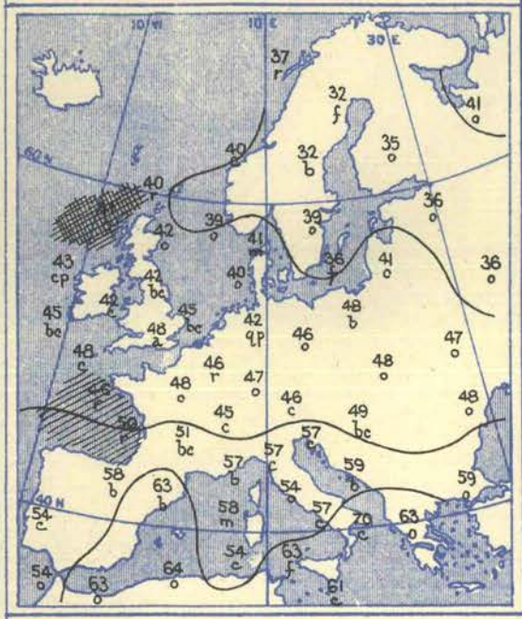
Wind light and variable over eastern and southern Europe; very variable in direction but rather stronger in force over the north-western countries. North-Easterly at Stornoway, North-Westerly in the west of Ireland, South-Westerly over England and the north of France, South-Easterly to Easterly in Norway. Local variation in direction later, but little material change in force.

Barometer highest, 30·1 ins. and more to 30·0 ins. over Spain; 29·9 in. and more over south-eastern Europe. Lowest, 29·3 ins. and less to 29·4 ins. in a complicated series of shallow depressions over Scotland and Wales; 29·13 ins. at Bodö. Barometer inclined to rise later in the west of Ireland and north-west of Scotland; changing little and irregularly, but, on the whole, falling elsewhere.

Thursday, 11th April.

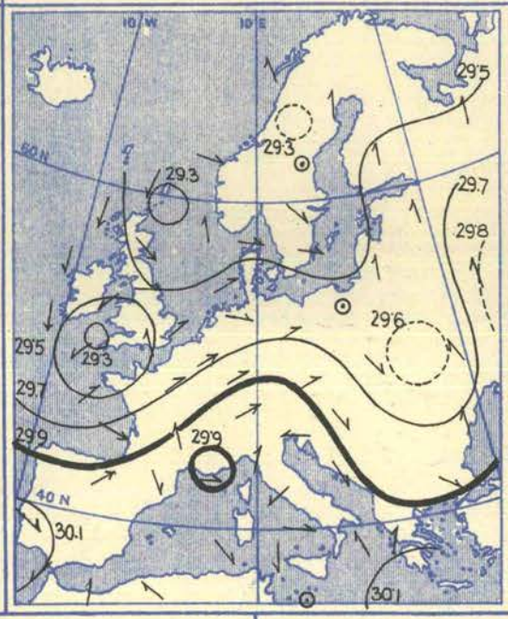
Temperature and Weather.

8 a.m.

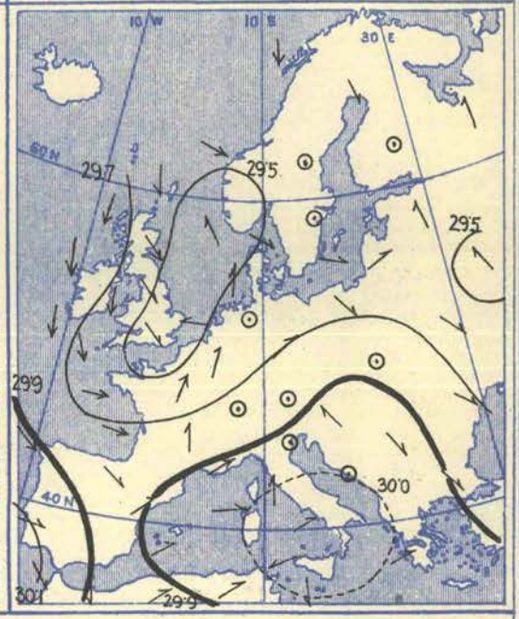


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very unsettled and rainy over the north of France and the greater part of England; finer in Ireland and in Scotland; fair over central and eastern Europe. Showers later in almost all parts of our area—the extreme northern and extreme southern parts of Europe alone escaping, but the amounts recorded not really large; thunder and lightning at Aberdeen, hail at the Helder.

Temperature risen over Russia, not much changed elsewhere, but inclined to decrease over western Europe as a whole. Morning readings highest, 70° at Brindisi, and 60° or more at many of the Mediterranean stations as well as at Bilbao; 50° at Rochefort, 48° at Scilly, 45° at Valencia and Yarmouth. Lowest, 32° at Haparanda, 35° at Kuopio, 36° at Moscow, 39° at Stockholm, 40° at Newton Reigny. Slightly exceeding 50° later at some of our south-west and western stations, and touching 57° over Germany, 61° at Biarritz, 66° at Nice, 82° at Palermo, and 100° at Biskra and Laghouat.

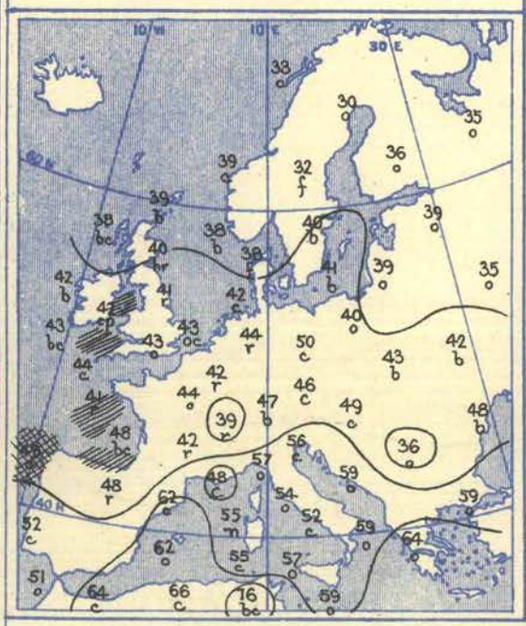
Wind very variable in direction over the southern and eastern countries; mainly South-Westerly over the northern half of France and north Germany—variable and cyclonic over the British Islands and northern Europe, Northerly in the extreme west and north-west, and strong in places. The Northerly wind becoming more general later, and a strong North-North-West breeze setting in at Scilly.

Barometer highest, 30·1 ins. and more over Greece, 29·9 ins. to 30·0 ins and more over northern Africa, the Mediterranean, and southern Europe. Lowest, about 29·3 ins. or less in three depressions over the British Islands and Scandinavia, and below 29·6 ins. in another over the south of Russia. The British depressions moving south-eastwards later, and barometer rising at all our western and northern stations.

Friday, 12th April.

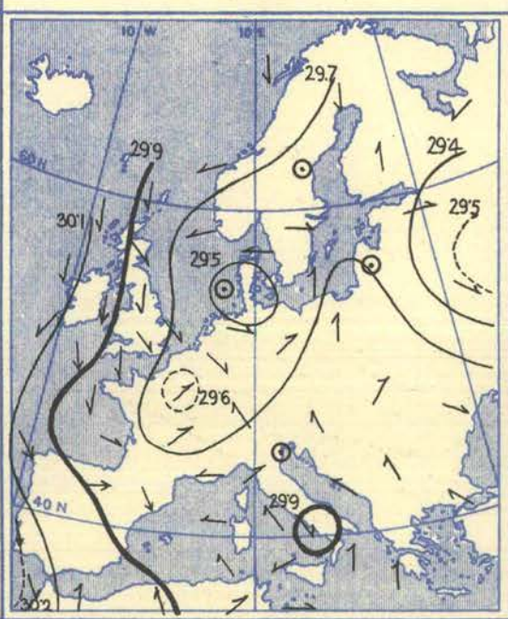
Temperature and Weather.

8 a.m.

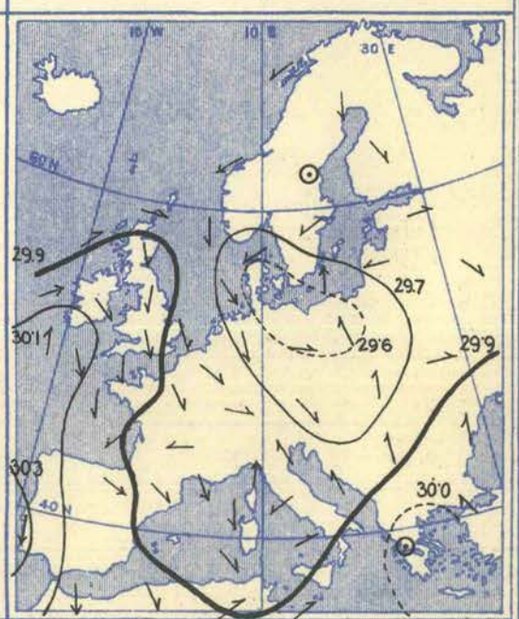


Barometer and Wind.

8 a.m.



6 p.m.



Weather over the British Islands still rather showery both on the east coast of Scotland and in Wales, but clearing in a marked degree elsewhere; changeable over the Continent, with rain in several parts of France. Showers later over all the western half of Europe and the Baltic, but not heavy as a rule.

Temperature fallen several degrees over the British Islands and most parts of Continental Europe. Morning readings highest, 76° at La Calle, 66° at Algiers, and above 60° over the southern and western parts of the Mediterranean as a whole, 50° at Berlin, 48° at Biarritz, 44° at Scilly, 40° at Malin Head and Wick. Lowest, 30° at Haparanda, 34° at St. Petersburg, 35° at Archangel and Moscow, 39° at Riga, 38° at Stornoway. Not rising much over our Islands later, but attaining a maximum of 60° at Gap, 61° at Toulouse, 68° at Marseilles.

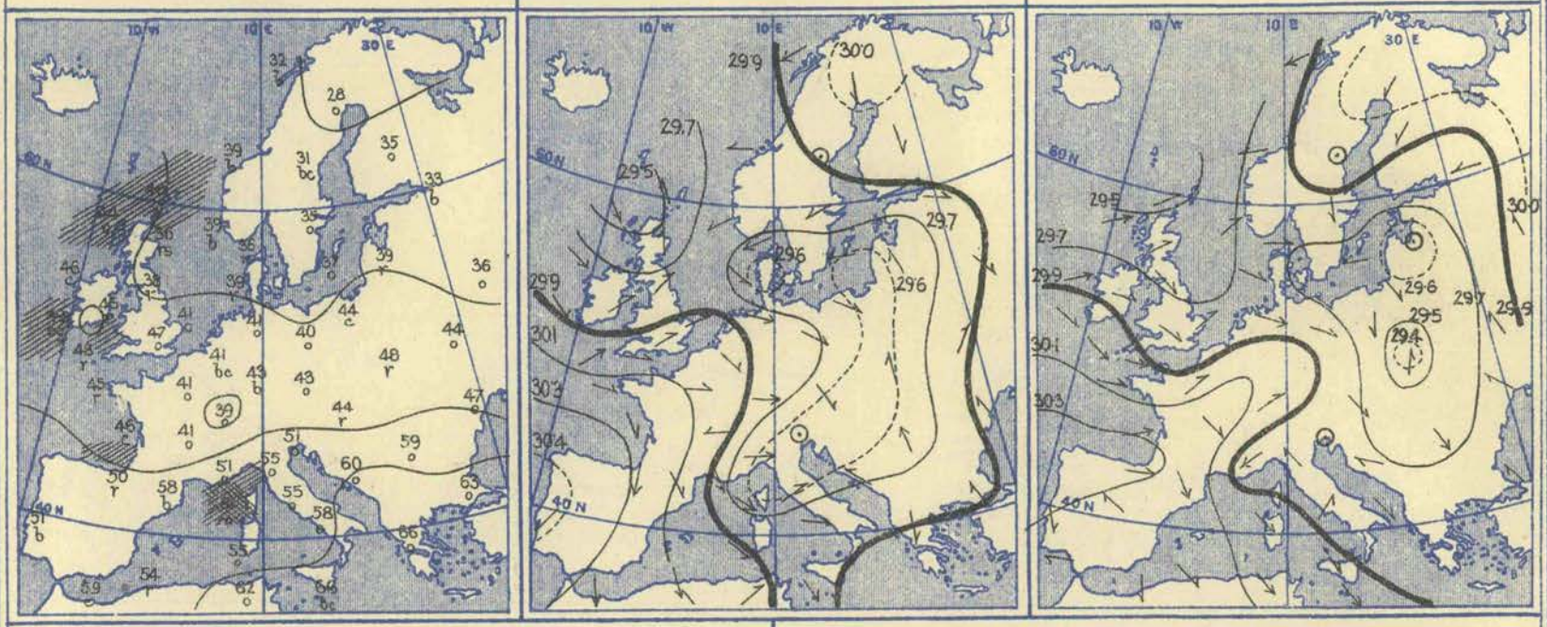
Wind still very variable indeed over the Continent, but Northerly to North-Westerly and moderate over the British Islands, Easterly in the west of Norway. A sudden change to South-Westward observed on our extreme north-west coasts in the afternoon, while the Northerly current remained intact over England and the English Channel.

Barometer highest, 30·20 ins. at Lisbon, and exceeding 29·9 ins. all over Spain, the Bay of Biscay, and western part of the British Islands. Lowest, 29·5 ins. and less over Denmark, 29·6 ins. and less over central France, and 29·4 ins. over central Russia. Changing very suddenly over our north-western coasts later, but continuing to rise over the North Sea and north of France.

Saturday, 13th April.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather fine over Portugal and in the north of Scandinavia, very disturbed over Europe generally, and rainy in many places—unsettled conditions prevailing over the British Islands, the Baltic, and as far south as the Riviera. Rain later all over western and central Europe—heavy in several localities—and bright intervals not so frequent in our Islands as of late. Fog reported in the west of France.

Temperature decreasing slowly over England, but changing very fitfully elsewhere. Morning readings highest, 66° at Patras and Malta, 62° at La Calle, 59° at Nemours, 58° at Naples and Barcelona, 50° at Biarritz; 51° to 49° on our extreme south-west coasts. Lowest, 28° at Haparanda, 31° at Hangö, 36° at Moscow, 39° at Fano. Rising later to a little above 50° at several of our own stations, to 68° at Nice, 73° at Brindisi and Palermo, and 79° at Nemours.

Wind exceedingly variable; Northerly to Easterly over northern Europe, North-Westerly to Northerly in the south-west. Blowing cyclonically from all kinds of directions elsewhere—Southerly and South-Westerly to North-Westerly over the British Islands, and brisk in force. Backing again on our north-west coasts later, and increasing in strength. Blowing hard over the north-east part of the Mediterranean all day.

Barometer highest, (1) 30·4 ins. and more to 30·2 ins. over south-western Europe and the Bay of Biscay; (2) 30·0 ins. and more to 29·9 ins. over northern Europe. Lowest, below 29·5 ins. over the north of Scotland; below 29·6 ins. over the Riviera and central Europe, with Denmark and the Sound. Rising later in Ireland, but no permanent alteration of immediate importance noted.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week there was an area of high pressure (varying from 30.0 ins. to 30.2 ins.) covering the whole of the Mediterranean, southern and south-eastern Europe, and from the central countries a ridge extended north-westward over the southern half of Scandinavia. Off the extreme north-western coasts of the British Islands lay a low-pressure system, where barometric readings were below 29.3 ins., and over the White Sea was another of similar value. The winds were light everywhere—variable in direction, but mainly anticyclonic over the southern countries, variable also, but cyclonic, round the two disturbances referred to above. As the week advanced the Atlantic depressions increased in intensity and spread Eastwards, with a corresponding increase in the force of the South-Westerly wind over the British Islands and of the South-Easterly to Easterly wind in Norway.

By Tuesday night the South-Westerly and Southerly current was dominant over the whole of north-western Europe, but the southern and south-eastern countries were unaffected. On Thursday morning there were three disturbances—one having its centre near Scilly, another off the north-east of Scotland, and a third over the north of Scandinavia. There was a fourth, of slight intensity, over the south-western part of Russia.

A considerable change ensued. In the rear of these western disturbances, as they moved eastwards, pressure rose fast, and the wind veered Northwards; this Northern current did not last long, but the new disturbance which appeared subsequently off our western coasts spread eastwards between two high-pressure systems—one over northern, the other over south-western Europe, the conditions became complex, and rainfall increased. At the close of the week these "maxima" remained in force, depressions were found over central and southern Europe and off the north of Scotland, while secondaries moved across England to the North Sea, and there were no indications of permanent change.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 86.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	34·2	+ 1·1	35	+ 1	BRIGHTON	26·5	−12·1	28	−13
STRATHPEFFER SPA	29·3	− 2·1	31	− 2	WORTHING	30·0	?	32	?
EDINBURGH	20·7	− 7·1	22	− 7	BOGNOR	32·5*	?	35*	?
MORPETH	47·9	?	50	?	WATERGATE (Emsworth)	26·6	?	28	?
NEWCASTLE-ON-TYNE	37·4	?	39	?	WESTBOURNE (Emsworth)	34·2*	− 6·4	36*	− 7
OSWALDKIRK (Yorkshire)	38·1	+ 7·6	40	+ 8	VENTNOR HOSPITAL	32·2	?	34	?
LOWESTOFT	37·2	?	40	?	SOUTHPORT	48·6	?	52	?
HOLLESLEY BAY	44·1	?	47	?	RHYL	59·2*	?	63*	?
SHEFFIELD	37·3	?	40	?	COLWYN BAY	52·3	?	56	?
WORKSOP	32·8	+ 4·3	35	+ 5	ABERDOVEY	43·0*	?	46*	?
THURCASTON (Leicestershire)	28·4	− 1·6	30	− 2	TENBY				
MARGATE	34·4	− 0·4	37	0	NEWQUAY				
BROADSTAIRS	35·3	?	38	?	TORQUAY	38·1	− 1·8	41	− 1
EASTBOURNE	28·1	−10·5	30	−11	GUERNSEY	34·8*	− 8·7	37*	−10

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & CO., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 16.] *Third Series* — WEEK ENDING SATURDAY, APRIL 20TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 92.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	28	51·2	36·8	43·7	0 (average)	34	+ 8	15	- 2	144	- 30	541	+34
	1. SCOTLAND, EAST	67	23	53·4	35·8	44·2	0 (average)	41	+ 8	17	0	137	- 93	617	+54
	2. ENGLAND, N.E.	69	29	53·7	36·9	44·9	1 above	42	+11	14	+ 2	172	- 67	504	+28
	3. ENGLAND, EAST	71	32	54·7	37·4	45·6	0 (average)	45	+ 3	13	0	196	- 100	544	+22
	4. MIDLAND COUNTIES	71	31	56·6	36·5	46·1	0 (average)	52	+ 9	15	+ 1	212	- 111	564	+40
	5. ENGLAND, SOUTH	69	29	54·6	38·7	46·3	1 below	44	- 1	9	+ 2	216	- 130	439	+45
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	64	26	52·7	37·1	44·5	1 below	38	+ 3	14	+ 3	184*	- 68	456*	+50
	7. ENGLAND, N.W.	71	28	54·5	39·0	46·3	0 (average)	43	+ 7	8	- 1	180	- 84	450	+63
	8. ENGLAND, S.W.	71	30	54·8	39·8	47·0	0 (average)	44	+ 1	6	0	258	- 105	367	+60
	9. IRELAND, NORTH	62	28	52·1	39·1	45·3	1 below	35	- 4	8	0	222	- 101	364	+21
	10. IRELAND, SOUTH	64	30	54·7	41·1	47·6	0 (average)	43	- 2	3	- 2	309	- 118	318	+66
	—CHANNEL ISLANDS	63	38	54·1	44·7	49·1	0 (average)	50	+ 2	0	- 1	399	- 73	160	+39

Rainfall. — Bright Sunshine.

	DISTRICTS. (See p. 92.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	9	3 more	82	+ 9	13·7	- 2·3	39	+ 6	38	+ 5	278	+ 7	25	+ 1
	1. SCOTLAND, EAST	3	2	3 less	66	+ 7	8·3	- 0·5	34	+ 1	35	+ 2	277	- 33	24	- 3
	2. ENGLAND, N.E.	3	2	2 less	67	+10	6·4	- 0·2	46	+14	46	+14	307	+ 2	27	0
	3. ENGLAND, EAST	3	4	0 (average)	66	+ 8	7·1	+ 0·7	52	+15	54	+15	318	- 55	25	- 5
	4. MIDLAND COUNTIES	3	3	1 less	63	+ 9	8·8	+ 1·3	53	+19	55	+20	273	- 36	24	- 3
	5. ENGLAND, SOUTH	3	3	2 less	60	+ 5	8·4	+ 0·4	59	+20	61	+21	325	- 50	27	- 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	1 more	66	0	14·3	- 2·1	48	+12	49	+12	341*	+32	30	+ 3
	7. ENGLAND, N.W.	3	4	1 less	65	+ 6	8·7	- 0·6	50	+12	51	+14	350	+28	29	+ 2
	8. ENGLAND, S.W.	3	3	3 less	63	0	13·0	+ 0·8	67	+26	69	+26	377*	+ 2	33	0
	9. IRELAND, NORTH	5	7	2 more	77	+ 7	11·0	+ 1·0	37	+ 3	38	+ 3	326	+16	28	+ 1
	10. IRELAND, SOUTH	5	7	1 more	66	0	11·8	- 0·7	44	+ 6	45	+ 6	371	+14	32	+ 2
	— CHANNEL ISLANDS	2	2	3 less	78	+11	11·2	+ 1·4†	69	+23	72	+24	371	- 92	29	- 8

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather continued in an unsettled and showery condition generally until about the middle of the week, when it became very fine and bright in all parts of the Kingdom except on our extreme western and north-western coasts. Thunderstorms, with sleet or snow, were experienced in many parts of Great Britain on Monday and Tuesday, but were more prevalent at our eastern stations than elsewhere.

Temperature continued very low until the 16th, after which date it rose gradually, and, over the greater part of England, eventually became high for the time of year. The mean daily temperature for the week, however, differed very little from the average anywhere, and, in many districts, was identical with that value. The daily maxima did not much exceed 50°, or even failed to reach it during the earlier half of the period, but towards its close they ranged from 71° in England E., N.W., the Midlands and England S.W., and from 69° in England S. and N.E., to 63° in the Channel Islands and to 62° in Ireland N. The lowest of the minima occurred, as a rule, either on the 16th or 17th, and ranged from 23° in Scotland E. and 26° in Scotland W., to 32° in England E. and to 38° in the Channel Islands.

Rainfall was again more than the mean in Scotland N. and W., and over Ireland, and just equal to it in England E.; elsewhere, however, there was a deficit.

Bright Sunshine exceeded the mean in all districts, the excess being large over England and in Scotland W. The percentage of the possible duration ranged from 72 in the Channel Islands, 69 in England S.W., and 61 in England S., to 38 in Scotland N. and Ireland N., and to 35 in Scotland E.

Barometer and Wind.—The distribution of pressure continued cyclonic during the earlier days of the week, and the winds mostly fresh or strong from South and South-West, veering to West and North-West. By the 17th, however, an anticyclone had appeared over our south-western coasts, and during the remainder of the period this system moved eastwards over France to Germany, and finally extended northwards to Scandinavia. Further depressions approached our extreme south-western and western coasts from the Atlantic, but their influence on the weather was confined to those localities, and the light Southerly and South-Easterly winds which prevailed over Great Britain were accompanied by extremely fine dry weather.

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* This value has been altered owing to the receipt of further information for a preceding week.
† The corresponding value in last week's Report should read "+1·7."

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	35	47·1	37·9	42·3	+ 0·5	19	11	5	0·96	+ 0·49	*	*	*	*
	Stornoway	54	32	49·4	37·6	43·2	− 0·1	27	12	6	0·63	+ 0·05	30·3	− 6·7	30	− 7
	Wick	57	30	49·7	37·4	43·3	− 0·1	28	13	5	0·50	+ 0·12	*	*	*	*
	Lairg Ⓢ	64	28	55·1	35·0	44·6	+ 2·3	48	20	4	0·45	− 0·10	*	*	*	*
	Glencarron Ⓢ	61	29	51·1	35·8	43·1	+ 0·1	34	17	5	1·54	+ 0·52	*	*	*	*
	Fort Augustus Ⓢ	64	28	53·8	36·8	45·0	+ 0·3	43	15	5	0·70	+ 0·22	34·4	+ 7·1	34	+ 7
	Fort William Ⓢ	61	30	52·4	37·1	44·4	− 0·8	37	14	5	1·68	+ 0·85	44·6	+11·8	45	+12
1. SCOTLAND, E.	Nairn	67	28	56·1	37·7	46·5	+ 2·2	50	12	3	0·09	− 0·21	*	*	*	*
	Aberdeen	60	32	52·0	36·6	43·9	− 0·1	36	15	5	0·46	− 0·02	42·5	+ 6·0	43	+ 7
	Braemar Ⓢ	59	23	49·7	34·4	41·7	+ 0·6	22	30	3	0·10	− 0·40	*	*	*	*
	Ochtertyre Ⓢ	67	27	57·7	34·7	45·7	+ 0·9	57	20	2	0·23	− 0·29	*	*	*	*
	Leith	63	31	53·7	37·6	45·3	0·0	42	12	3	0·09	− 0·26	*	*	*	*
	Marchmont Ⓢ	67	27	50·9	33·6	41·8	− 1·5	25	32	2	0·17	− 0·35	34·8	+ 0·3	35	+ 1
2. ENGLAND, N.E	Alnwick Castle	65	29	53·2	35·9	44·1	+ 1·0	40	17	2	0·33	− 0·15	*	*	*	*
	Durham	66	31	54·2	35·7	44·5	+ 0·5	44	18	4	0·18	− 0·27	50·4	+20·4	51	+20
	Shields	65	33	52·9	37·9	45·0	+ 0·8	38	11	2	0·06	− 0·32	*	*	*	*
	Scarborough Ⓜ	63	34	53·4	35·9	44·2	− 0·6	41	17	5	0·12	− 0·28	46·4	?	47	?
	Spurn Head	60	37	52·4	39·6	45·7	+ 0·9	36	7	3	0·14	− 0·16	*	*	*	*
	Fulbeck (Lincolnshire)	69	32	56·1	36·2	45·7	+ 0·2	50	16	3	0·21	− 0·18	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	67	34	56·2	36·8	46·0	0·0	50	15	3	0·31	− 0·09	45·9	+ 9·1	47	+10
	Yarmouth	57	34	50·1	38·1	43·8	− 1·0	29	11	3	0·39	0·00	*	*	*	*
	Geldeston	65	34	55·1	37·3	45·8	− 0·1	46	13	3	0·49	+ 0·14	45·0	+ 6·8	46	+ 7
	Cambridge	71	52	58·8	36·4	47·1	0·0	59	16	3	0·42	+ 0·07	56·3	+18·3	58	+20
	Felixstowe	57	35	52.1	38·9	45·2	− 1·3	35	9	3	0·37	?	55·3†	?†	57†	?†
	Rothamsted	66	34	55·9	36·9	45·9	0·0	49	14	3	0·25	− 0·19	60·3	+25·3	62	+26
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	33	57·4	36·0	46·2	− 0·2	55	17	2	0·38	− 0·01	*	*	*	*
	Loughborough	71	31	58·7	37·0	47·3	+ 0·5	58	14	2	0·18	− 0·21	*	*	*	*
	Colly Weston (Stamford)	68	33	55·4	36·4	45·4	− 0·8	47	16	4	0·24	?	*	*	*	*
	Cheadle Ⓜ	68	31	55·0	36·1	45·1	+ 0·2	46	17	3	0·43	− 0·05	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	34	55·9	37·5	46·3	+ 0·7	49	13	2	0·22	− 0·23	55·9	?	58	?
	Churchstoke Ⓜ	68	32	57·0	35·4	45·7	+ 1·2	54	18	3	0·32	− 0·10	50·3	+15·3	52	+16
	Hereford (Belmont) Ⓜ	68	31	57·3	36·1	46·2	− 0·5	54	17	3	0·39	+ 0·01	*	*	*	*
	Cirencester	? 65	32	? 55·5	36·0	? 45·3	? 0·0	? 48	? 17	2	0·24	− 0·18	60·3	+23·5	62	+24
	Oxford	68	34	57·1	38·4	47·3	+ 0·4	52	10	3	0·38	0·00	61·0	+25·4	63	+26
5. ENGLAND, S.	London	69	36	57·1	38·3	47·3	− 0·7	53	10	3	0·30	− 0·08	52·0†	+21·8†	54†	+23†
	Swarraton (Alresford) Ⓜ	65	29	55·7	36·1	45·4	− 0·2	49	17	3	0·37	− 0·07	*	*	*	*
	Dungeness	58	33	53·3	39·1	45·9	− 0·6	39	8	3	0·32	+ 0·01	53·5	?	55	?
	Hastings (St. Leonards)	63	34	54·2	39·1	46·3	− 0·7	42	8	3	0·21	− 0·21	59·9	+18·7	62	+19
	Southampton	63	34	57·8	38·9	47·9	− 0·5	54	9	3	0·30	− 0·15	64·1	+24·1	66	+25
	Portland Bill	52	39	50·6	42·1	46·2	− 2·0	29	0	3	0·20	?	*	*	*	*
	Shaftesbury Ⓜ	60	32	53·8	37·3	45·2	− 0·9	42	13	4	0·13	− 0·44	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	60	32	52·6	37·7	44·8	− 1·0	38	12	5	1·46	+ 0·59	*	*	*	*
	Glasgow	64	34	52·5	38·3	45·1	+ 0·1	37	10	5	0·44	− 0·05	42·2	+12·2	43	+13
	Glenlee Ⓢ	63	26	53·7	33·8	43·3	− 1·2	44	23	4	0·79	+ 0·12	*	*	*	*
	Douglas (Isle of Man)	59	35	51·8	38·4	44·8	− 0·8	35	10	5	0·42	− 0·13	52·7	+10·2	54	+11
7. ENGLAND, N.W.	Newton Reigny	68	28	53·6	36·1	44·4	+ 0·7	42	17	5	0·57	?	43·8	?	45	?
	Stonyhurst	65	32	52·6	37·8	44·8	− 0·5	37	12	3	0·43	− 0·13	48·3	+13·3	49	+14
	Blackpool Ⓜ	68	30	54·4	38·1	45·9	− 0·2	44	11	3	0·13	− 0·27	46·6	+11·4	48	+12
	Manchester (Prestwich)	68	32	55·3	36·8	45·6	− 0·1	47	15	3	0·67	+ 0·20	46·5	?	47	?
	Liverpool Obsy. (Bidston)	68	35	54·7	39·7	46·8	0·0	43	6	3	0·33	− 0·02	57·8	?	60	?
	Chester (Hawarden Bridge)	68	34	56·4	38·9	47·2	− 0·2	49	9	3	0·39	?	*	*	*	*
	Llandudno Ⓜ	71	36	56·0	42·4	48·9	+ 1·6	48	0	3	0·22	− 0·20	50·2	+13·7	52	+15
	Holyhead	67	36	52·7	41·9	47·0	0·0	35	0	4	0·17	− 0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	71	30	57·7	37·1	46·9	+ 0·4	55	14	4	0·59	− 0·03	*	*	*	*
	Pembroke	58	40	51·0	43·3	47·0	+ 0·5	35	0	2	0·11	− 0·34	58·4	+15·9	60	+16
	Clifton												*	*	*	*
	Bath	65	32	56·9	38·0	47·0	− 0·6	52	11	3	0·45	?	?	?	?	?
	Arlington (N. Devon)	63	34	54·9	38·4	46·3	+ 1·0	45	10	3	0·34	− 0·34	*	*	*	*
	Cullompton Ⓜ	63	33	56·8	38·1	47·0	− 0·9	51	11	3	0·42	− 0·14	35·3	+28·5	67	+29
	Falmouth	54	38	52·3	42·3	47·1	− 0·9	36	0	3	0·09	− 0·57	74·5	+31·5	78	+34
	Plymouth	60	36	54·3	41·5	47·6	− 1·0	41	1	3	0·07	− 0·46	65·3	+24·4	68	+26
9. IRELAND, N.	Malin Head	55	35	49·7	40·9	45·1	− 0·9	26	3	7	0·60	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	60	30	53·1	37·3	44·8	− 0·2	39	13	5	0·53	+ 0·01	*	*	*	*
	Blacksod Point	52	37	49·7	40·7	45·0	− 2·5	26	4	7	1·40	?	*	*	*	*
	Markree Castle	57	28	52·5	38·3	45·1	− 1·8	37	10	5	0·80	+ 0·25	29·5	− 5·3	30	− 5
	Armagh	62	32	55·6	38·5	46·6	+ 1·1	47	10	3	0·71	+ 0·22	44·9	+11·7	46	+12
	Donaghadee	56	34	52·1	38·9	45·2	− 0·6	35	9	5	0·21	− 0·24	*	*	*	*
10. IRELAND, S.	Dublin	64	35	57·4	41·4	49·0	+ 1·4	52	2	4	0·30	− 0·16	51·5	+12·7	53	+14
	Parsonstown	62	30	56·6	38·4	47·1	+ 0·4	51	10	4	0·59	+ 0·09	46·3	+11·4	48	+11
	Kilkenny	61	30	55·0	39·3	46·8	− 0·4	45	8	4	0·57	+ 0·06	*	*	*	*
	Roche's Point	55	38	52·7	43·0	47·6	− 0·7	39	0	5	0·21	− 0·53	*	*	*	*
	Valencia	55	36	52·0	41·7	46·6	− 2·0	33	1	6	1·41	+ 0·51	33·5	− 5·4	35	− 5
	Killarney	60	35	55·2	42·3	48·4	+ 0·9	45	0	6	0·79	− 0·01	*	*	*	*
	Foynes	62	36	54·1	41·8	47·7	+ 0·4	41	1	5	0·99	+ 0·41	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	53·0	45·6	49·1	+ 0·3	50	0	2	0·24	− 0·26	69·2	?	72	?
	Jersey	63	38	55·1	43·7	49·1	− 0·2	50	0	2	0·10	− 0·35	70·0	+24·0	73	+25

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

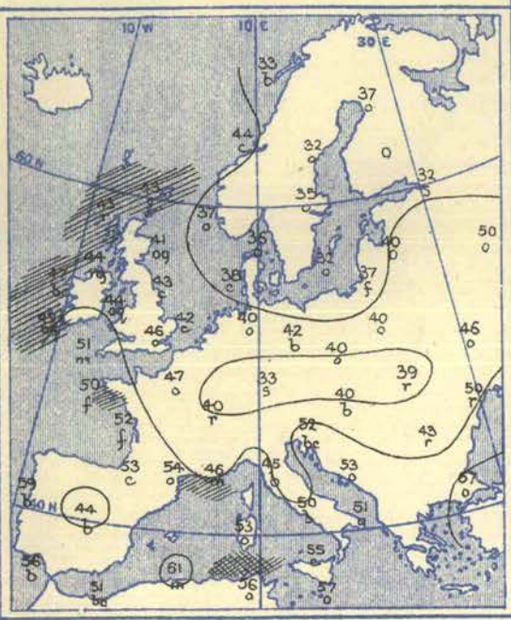
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

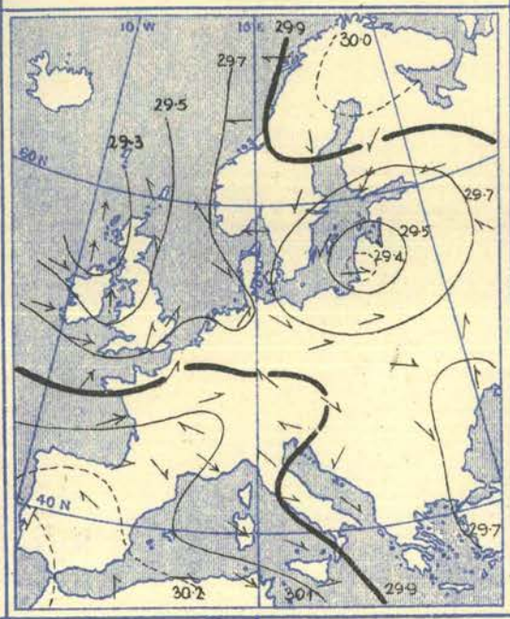
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 14th April.

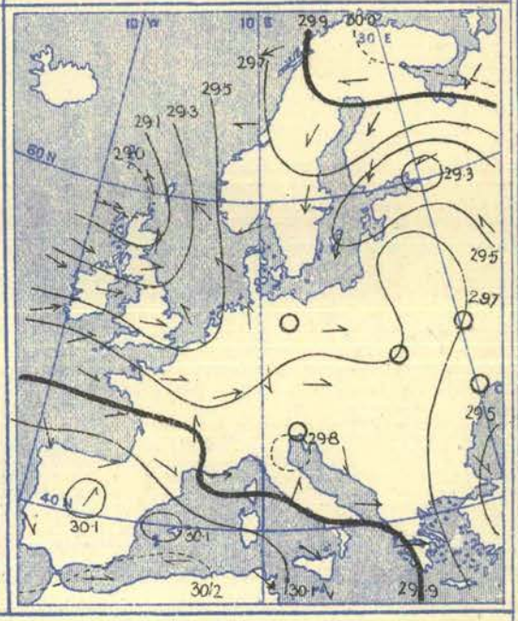
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled over western, northern and central Europe generally, with rain in many places and snow at Munich and St. Petersburg. Fine over Italy, the Spanish Peninsula and the extreme south of France. Sky clearing later in many parts of Scandinavia, but snow falling over the Gulf of Finland; no important change occurring elsewhere.

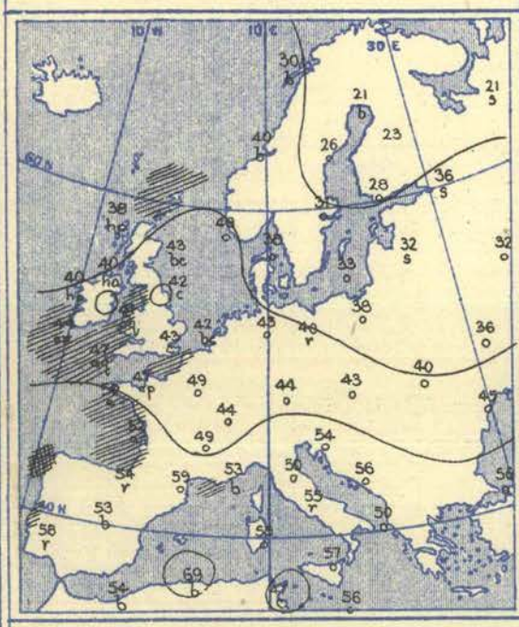
Temperature risen over Great Britain and France and also over Russia and Scandinavia; fallen in most other countries. Morning readings highest, 67° at Constantinople, 61° at Algiers and 59° at Oporto and Barcelona; above 50° over southern Europe generally and also over the Bay of Biscay and some parts of our own extreme south-west coasts. Lowest, 32° at Hernösand, St. Petersburg and Copenhagen, and 33° at Bodö and Helsingfors, as well as at Munich; below 40° over northern Europe generally. Rising during day to 55° or slightly above it at several of our own central and southern stations, but remaining below 45° on our extreme north and north-west coasts. Exceeding 65° over the Spanish Peninsula and the Mediterranean and reaching 73° at Lisbon.

Wind fresh to strong from the Westward or North-Westward on our extreme west or south-west coasts; light to fresh from the South-Westward in France; and from the Southward or South-Eastward over Great Britain and the North Sea; North-Easterly in Sweden and northern Russia, with a gale at Helsingfors; Westerly in Germany; North-Westerly over Austria, Italy and the Mediterranean. Subsequently veering to the Westward over Great Britain; no important change occurring elsewhere.

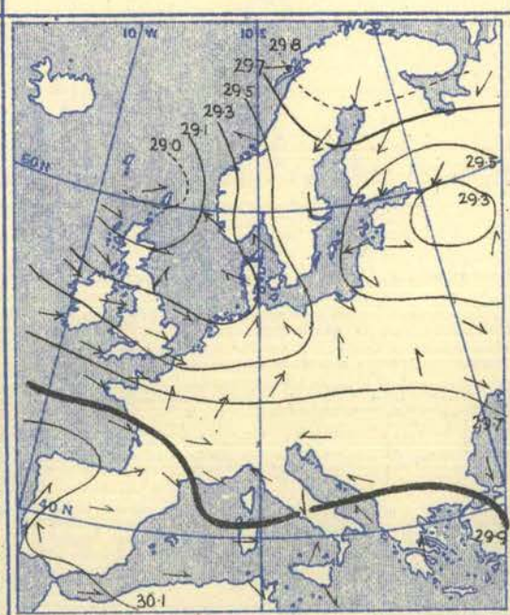
Barometer highest, 30·3 ins. and upwards in an anticyclone over Spain and Algeria; 30·0 ins. and upwards in another system over the north of Scandinavia. Lowest, 29·3 ins. and less in a "V-shaped" depression over our Islands, with its centre off the west of Scotland; 29·4 ins. and less in another disturbance over the Baltic provinces. Both depressions subsequently moving north-eastwards; anticyclone over Spain beginning to break up

Monday, 15th April.

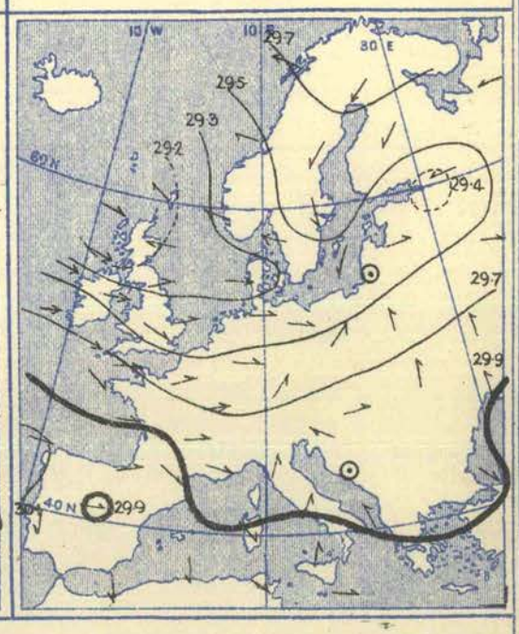
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of the Mediterranean and also over the extreme north of Europe; unsettled, more or less, elsewhere, with graupel and rain in many parts of our Islands, rain and snow over central Europe. Some rainfall very generally later over our Islands and central Europe, but rather large quantities of bright sunshine as well. Thunderstorms both in the south-west and the east of our Islands.

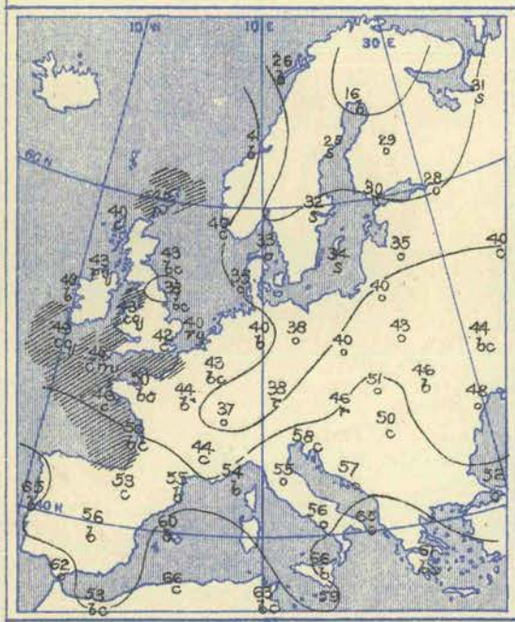
Temperature fallen at most of our own and the northern stations; risen over Algeria, France, Germany, and the south of Russia. Morning readings highest, 69° at Algiers, 61° at Barcelona; much above 50° at the Mediterranean stations generally; 56° at Oporto, 50° at Brest, 48° at Dungeness, 47° at Scilly, and above 40° over almost the whole of the United Kingdom. Lowest, 21° at Archangel and Haparanda, 23° at Kuopio, 32° at Moscow, 39° or 40° on the western coasts of Norway and Denmark. Rising later to a little above 50° in some parts of our Islands, to 55° at Biarritz, 71° at Perpignan, 82° at Algiers, 84° at Palermo.

Wind strong from North-East and East over northern Europe; fresh from West and North-West over the British Islands and western Europe, and moderate from South-West and South over Germany; very variable in direction and light in force (but mainly cyclonic) over the Mediterranean. The Westerly wind becoming still stronger later in the north of Ireland, but no general change reported.

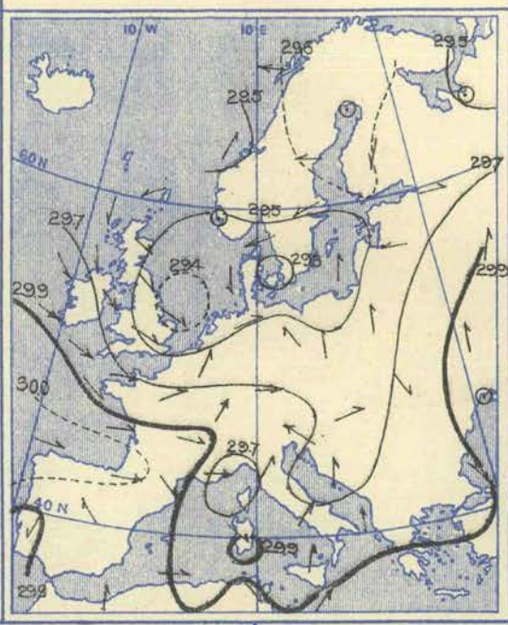
Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over the Spanish Peninsula, the south-west of France, and the southern sides of the Mediterranean; (2) 29·8 ins. and more to 29·6 ins. over the extreme north of Europe. Lowest, 29·0 ins. and less in a depression near the north of Scotland; below 29·3 ins. in a secondary over the North Sea, and also in a primary depression over north-western Russia. Rising somewhat considerably later over our extreme north and south-west coasts. Little changed as a whole.

Tuesday, 16th April.

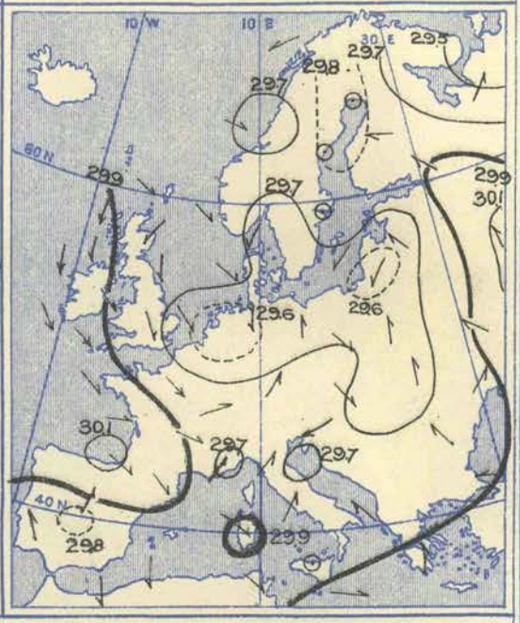
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery over England and the north of Ireland, with hail at Oxford, but fine in most other parts of western Europe and also over the southern countries. Dull over the northern and central parts of the Continent, with rain at Munich and Vienna, and snow at several of the Swedish stations, as well as at Archangel. Rain, hail or sleet falling later in most parts of north-western and central Europe; thunderstorms occurring at several of the English stations.

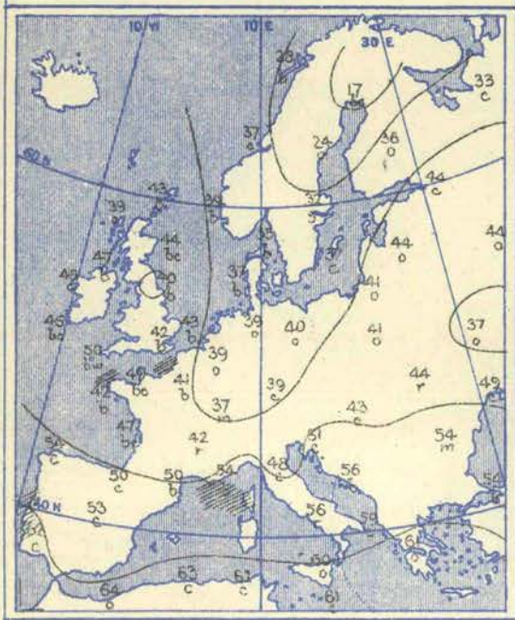
Temperature risen in Ireland and Scotland and also over the southern and eastern parts of the Continent generally, fallen elsewhere. Morning readings highest, 67° at La Calle, 66° at Algiers and Palermo, and 65° at Brindisi; above 55° in most parts of southern Europe. Lowest, 16° at Haparanda, 21° at Uleaborg, and 25° at Hernösand; below the freezing point in most parts of Scandinavia and northern Russia, and below 40° in the north of England. Rising during day to 50° and upwards in many parts of the United Kingdom, and to 55° at Parsonstown; exceeding 70° over Spain, the Riviera and southern Italy, and reaching 81° at Madrid. Frost at night at many of our own northern and inland stations.

Wind Westerly or North-Westerly over the greater part of our Islands and France, and strong to a gale in force on our western and southern coasts; South-Westerly or Southerly over Italy, Germany and the Baltic; Easterly or North-Easterly in Finland, Scandinavia and the extreme north of Scotland, and also over the Spanish Peninsula. Subsequently veering to the Northward in many parts of the United Kingdom; no important change occurring elsewhere.

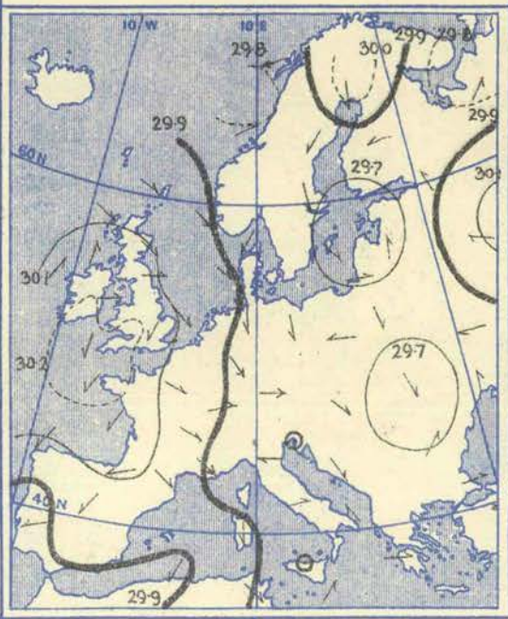
Barometer highest 30·1 ins. and upwards in an anticyclone over the south of Russia; 30·0 ins. and less in another system over the north of Spain. Lowest, 29·3 ins. and less in a small depression over the extreme south of Sweden; 29·4 ins. and less in another disturbance over the southern part of the North Sea; 29·5 ins. and less in two other systems lying respectively over the White Sea and off the west of Norway. Depressions over Sweden and the North Sea subsequently moving south-eastwards and partially filling up; anticyclone beginning to spread over our Islands from the Atlantic.

Wednesday, 17th April.

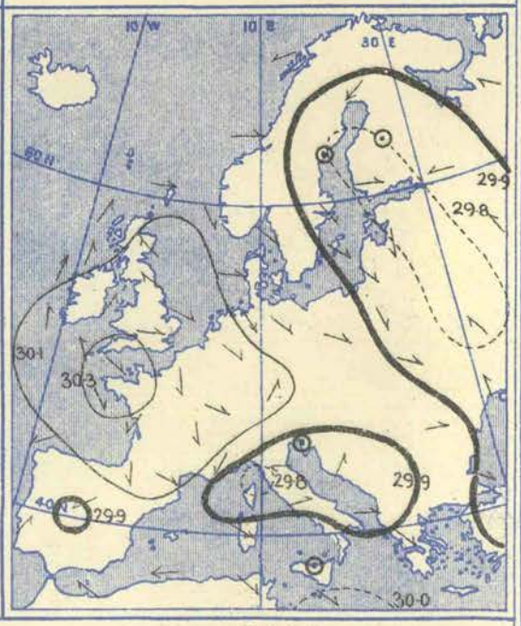
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western Europe as a whole, and also in the west and north of Scandinavia. Cloudy or dull elsewhere, with rain at Frankfürt, Lyons and Naples as well as at Lemberg, and snow at Stockholm. Slight rain falling later at some of our own western and extreme northern stations, as well as in Germany and Austria, and snow in Sweden.

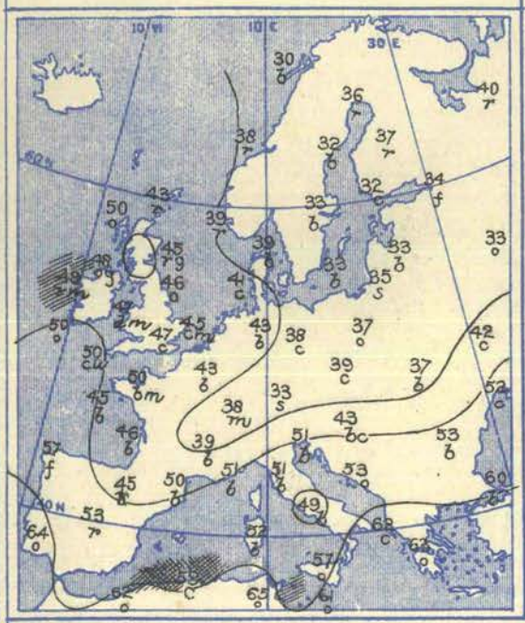
Temperature fallen over Ireland, France and southern Europe generally; risen in Russia, changed very slightly elsewhere. Morning readings highest, 64° at Oran, 63° at Algiers, and 62° at La Calle and Lisbon; above 55° at most of the Mediterranean and Adriatic stations. Lowest, 17° at Haparanda, 24° at Hernösand and 27° at Karlstad; below 40° over northern Europe generally, as well as at some places in Belgium, central France and the north of England. Rising during day to between 50° and 55° in most parts of the United Kingdom and to 57° at Loughborough and Parsonstown; exceeding 60° in the west and south of France; exceeding 70° over the Spanish Peninsula and southern Italy, and reaching 82° at Oporto.

Wind light to moderate from the North-Westward, over the North Sea and the adjacent coasts, as well as in Belgium, western Germany and central France, from the Northward in the south of England and from the North-Eastward over the Bay of Biscay and the Spanish Peninsula. North-Easterly also in Finland and Sweden; variable in Austria and Italy; North-Westerly in the extreme south of France; Westerly in Greece. Southerly or South-Westerly breezes setting in later over the greater part of the United Kingdom; no important change occurring elsewhere.

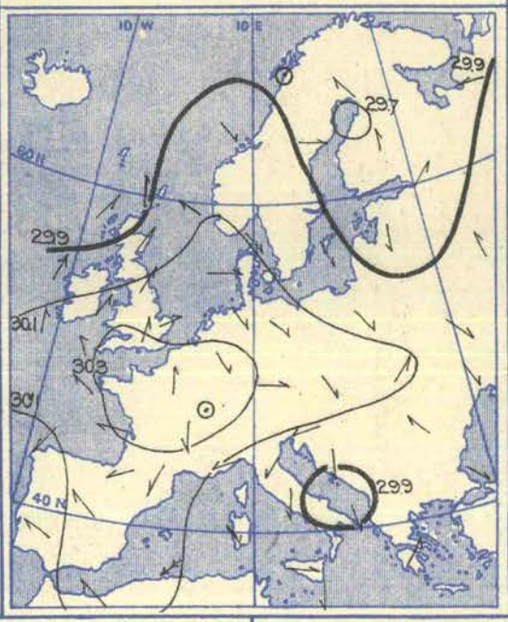
Barometer highest, 30·2 ins. and upwards over the south-western parts of the United Kingdom, 30·0 ins. and upwards in an anticyclone covering nearly the whole of western Europe, as well as in another system over central Russia. Lowest, 29·7 ins. and less in two shallow depressions,—one lying over the northern part of the Baltic and the other over eastern Austria. Western anticyclone increasing later, both in size and height; depressions amalgamating and partially filling up.

Thursday, 18th April.

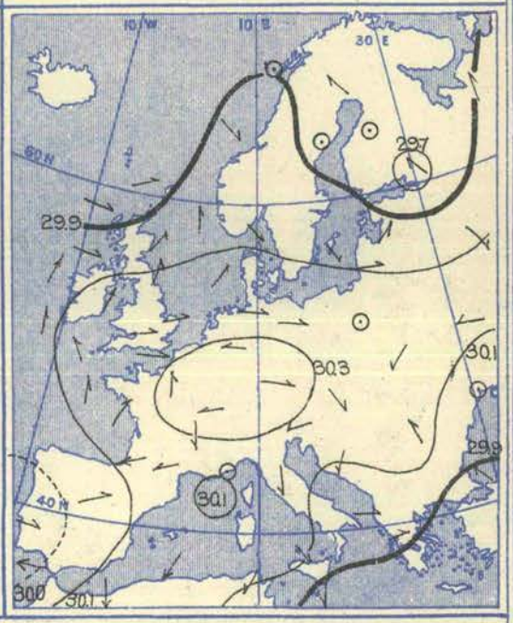
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands, with rain in Scotland and the north of Ireland, as well as in the west of Norway. Fair or fine in most other parts of Europe, but cloudy at several of the Russian and German stations, with rain in Lapland and the extreme north of Russia, and snow at Memel and Munich. Rain falling later in Ireland and Scotland generally, and also in Denmark, Germany, and Austria.

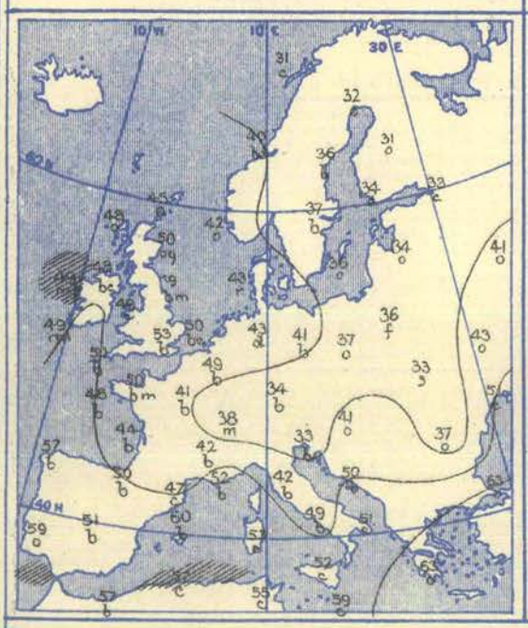
Temperature risen over our Islands and the northern parts of the Continent, fallen in France and Germany, changed very irregularly elsewhere. Morning readings, highest 65° at La Calle, 64° at Oporto and Lisbon, and 63° at Patras; above 55° at most of the Mediterranean and Spanish coast stations, and slightly above 50° in some parts of Scotland. Lowest, 30° at Bodö, and 32° at Hernösand, Hangö, and Helsingfors; below 40° over northern and central Europe generally. Rising during day to between 55° and 60° in many parts of the United Kingdom, and to 62° at Parsonstown; exceeding 65° at several of the southern stations in France and Italy, and reaching 77° at Madrid.

Wind light to moderate from the Southward or South-Westward in our Islands; Westerly or North-Westerly over northern and central Europe; Northerly or North-Easterly in Italy; Easterly over the Spanish Peninsula and the west and south of France. No important change occurring during day.

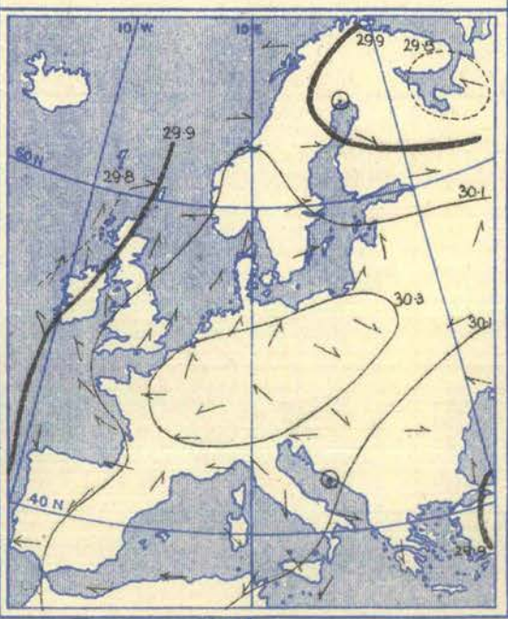
Barometer, highest 30·3 ins. and upwards over the south of England, Belgium, western Germany and the greater part of France; 30·1 ins. and upwards in an anticyclone covering nearly the whole of Ireland and England and the western, central, and south-western parts of the Continent. Lowest, 29·7 ins. and less in a depression over Lapland; 29·9 ins. and less in two other systems—one lying off the north-west of Scotland, and the other over the southern part of the Adriatic. Anticyclone subsequently drifting slowly eastwards; depression over Adriatic moving southwards and filling up.

Friday, 19th April.

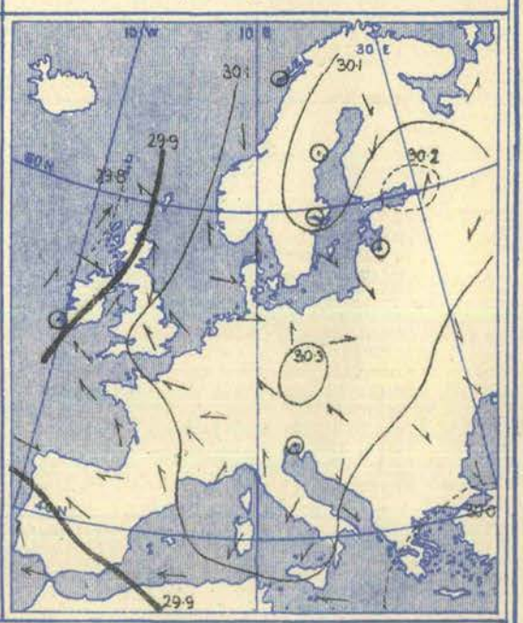
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western, central, and southern Europe generally, but dull in the north of Scotland and rainy in the west of Ireland. Cloudy or dull in Russia and Austria, with snow at Lemberg. Rain falling later over nearly the whole of Ireland and the west of Scotland,—heavily at Valencia.

Temperature risen in all but the southern countries. Morning readings highest, 63° at Athens, 61° at Patras, 60° at Barcelona and 59° at Lisbon, touching 50° or slightly more in several parts of the United Kingdom. Lowest, 31° at Bodo and Kuopio, 32° at Haparanda and 33° at St. Petersburg and Lemberg, below 40° over northern and central Europe generally, but slightly above it in Denmark and north Germany. Rising during day to 60° and upwards over central Ireland and many parts of Great Britain and reaching 66° at Loughborough and 67° at Nairn. Exceeding 65° also at several places in southern Europe and reaching 75° at Biarritz.

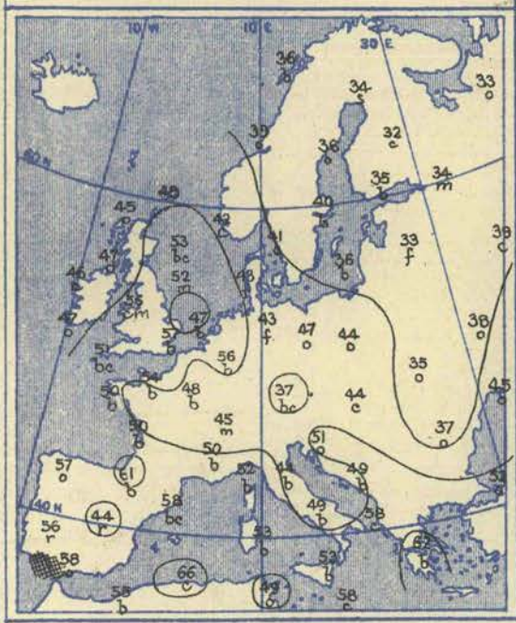
Wind light to moderate from the Eastward over France, south Germany and the Spanish Peninsula, and from the South-Eastward or Southward over the greater part of the United Kingdom. Light from the South-Westward on the east coasts of Great Britain and also over the Netherlands, Denmark, north Germany and the Baltic; Westerly in Sweden; North-Westerly over northern Russia, Easterly in the south of Russia; North-Westerly in Austria, variable in Italy. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards over Germany and the east of France, 30·1 ins. and upwards in an anticyclone embracing the greater part of Europe, including the whole of England. Lowest, 29·8 ins. and less in two shallow depressions, one lying to the westward of our Islands and the other over the extreme north of Russia. Anticyclone subsequently moving slowly eastwards, but general distribution of pressure remaining unchanged

Saturday, 20th April.

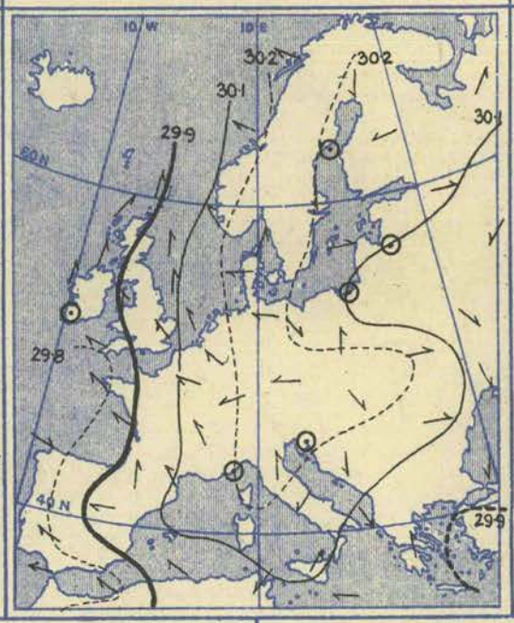
Temperature and Weather.

8 a.m.

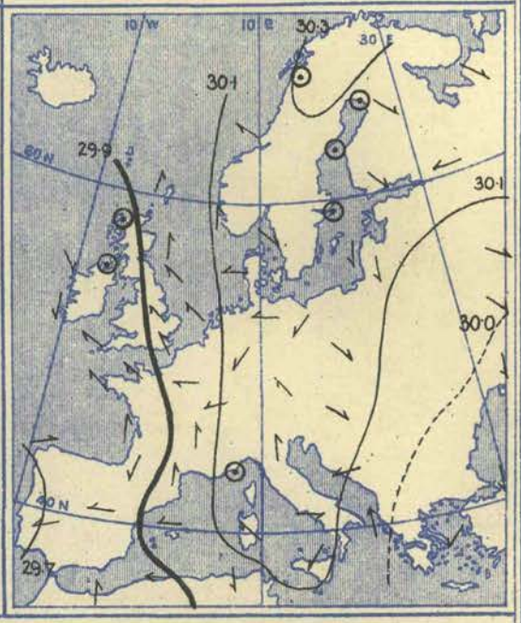


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and southern Europe generally but dull in Ireland and the west of Scotland and also over the Spanish Peninsula, with rain at Madrid and Lisbon. Cloudy or dull in the northern, eastern and central countries, with fog in Denmark, north Germany and the extreme south of Norway, and rain at Neufahrwasser, Memel and Nicolaieff. Rain falling later in the west of Ireland; no important change occurring elsewhere.

Temperature risen generally but fallen in Ireland and also in Spain. Morning readings, highest, 66° at Algiers, 62° at Patras and 61° at Biarritz; slightly above 55° at some stations in the central parts both of England and Scotland. Lowest, 32° at Kuopio and 33° at Archangel, Uleaborg and Riga; below 40° over northern and eastern Europe generally. Rising during day to 65° and upwards in many parts of Great Britain to 69° in London and to 71° at Loughborough. Exceeding 70° also in the west of France, but remaining below 65° over southern Europe as a whole and not rising above 50° at Madrid.

Wind light to moderate from the Eastward or South-Eastward over the western countries generally, but chiefly Southerly in Scotland and the north of Ireland. Light from the Northward in Sweden; variable in Russia, Austria and Italy. Shifting to the Northward later in the west of Ireland; no material change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone of irregular form covering the greater part of Scandinavia, Denmark, Germany, Austria and northern Italy. Lowest, 29·8 ins. and less in a large shallow depression extending from the Atlantic over Portugal and northwards as far as the Scilly Islands; 29·9 ins. and less (apparently) in another shallow system over Asia Minor; no decided change occurring later.

GENERAL NOTES.

At the beginning of the week two anticyclones were observed over Europe—one, the stronger system, over Spain and Algeria; the other, a much feebler system, over the extreme northern parts of Scandinavia and Russia. In our Islands the weather was influenced by a "V-shaped" depression which advanced eastwards across the Kingdom, cold winds being experienced from South, shifting to North-West, with showers of hail or rain, and in some places of snow or sleet. Over the more central parts of the Continent the conditions were affected by secondary disturbances, the most important of which moved eastwards from the Baltic provinces and dispersed over central Russia. On the 15th and 16th further secondary systems were developed over the North Sea, these afterwards moving south-eastwards and disappearing.

The northern high-pressure area had in the meantime been gradually giving way, but a new anticyclone soon advanced from the Atlantic, its central portion moving across our Islands on the 17th and 18th, and afterwards settling down over the more central countries, and eventually over the northern countries also. The North-Westerly winds over the United Kingdom now died down, and were shortly replaced by light breezes from the South-Eastward or Southward, the change being accompanied by fine weather, and by a gradual extension of warmth from southern Europe. On the 18th the thermometer rose to 60° and upwards in several isolated parts of the United Kingdom, and on the 19th to 65° and upwards, while on the 20th it rose slightly above 70° in many parts of England. As the anticyclone moved eastwards a series of shallow depressions passed northwards outside our west coasts and occasioned rain in Ireland and Scotland, while at the close of the week a large area of low readings was advancing very gradually over our Islands from the south-westward.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	45·4	+10·4	45	+10	BRIGHTON	60·8	+19·8	63	+20
STRATHPEFFER SPA	37·6	+ 3·6	38	+ 4	WORTHING	65·3	?	67	?
EDINBURGH	26·0	- 3·5	26	- 3	BOGNOR	64·4*	?	66*	?
MORPETH	50·5	?	52	?	WATERGATE (Emsworth)	60·0	?	62	?
NEWCASTLE-ON-TYNE	40·5	?	41	?	WESTBOURNE (Emsworth)	62·5*	+19·5	64*	+20
OSWALDKIRK (Yorkshire)	39·7	+ 7·6	40	+ 7	VENTNOR HOSPITAL	65·6	?	68	?
LOWESTOFT	45·7	?	47	?	SOUTHPORT	52·8	?	54	?
HOLLESLEY BAY	57·1	?	59	?	RHYL	*	?	*	?
SHEFFIELD	50·1	?	52	?	COLWYN BAY	44·2	?	46	?
WORKSOP	39·4	+ 8·9	41	+10	ABERDOVEY	58·9*	?	61*	?
THURCASTON (Leicestershire)	54·4	+22·4	56	+23	TENBY	69·4	+25·4	72	+27
MARGATE	52·5	+16·0	54	+16	NEWQUAY	61·4	+20·4	64	+21
BROADSTAIRS	49·0	?	51	?	TORQUAY	73·0	+31·3	76	+33
EASTBOURNE	62·0	+21·1	64	+22	GUERNSEY	68·4*	+22·3	71*	+23

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Feb. 2nd, 1901	Arlington	47	30	40·9	32·4	36·8	- 3·7	0	36	—	—	—	—	—	—	—
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	7·4	?	12	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	5·4	?	9	?
" " " 9th, "	Churchstoke	44	24	38·0	30·7	34·4	- 3·8	0	53	4	0·17	- 0·43	7·8	- 8·2	12	- 12
	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	5·3	?	8	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & CO., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 17.] *Third Series* WEEK ENDING SATURDAY, APRIL 27TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 98.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	32	59·2	40·5	49·4	5 above	58	+28	4	−10	202	− 2	545	+24
	1. SCOTLAND, EAST	74	26	60·5	38·3	48·9	4 above	64	+27	10	− 4	201	−66	627	+50
	2. ENGLAND, N.E.	77	35	60·0	41·6	50·4	5 above	60	+24	1	− 9	232	−43	505	+19
	3. ENGLAND, EAST	79	37	61·2	42·8	51·6	5 above	67	+20	0	−10	263	−80	544	+12
	4. MIDLAND COUNTIES	79	34	66·4	41·9	53·6	7 above	82	+33	0	−11	294	−78	564	+29
	5. ENGLAND, SOUTH	76	35	62·8	45·2	53·6	5 above	81	+29	0	− 6	297	−101	439	+39
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	71	33	62·2	41·6	51·4	5 above	67	+26	1	− 8	251	−42	457	+42
	7. ENGLAND, N.W.	73	33	64·3	44·1	53·7	7 above	83	+41	0	− 7	263	−43	450	+56
	8. ENGLAND, S.W.	74	35	62·8	44·3	53·1	5 above	78	+30	0	− 4	336	−75	367	+56
	9. IRELAND, NORTH	68	30	57·7	42·0	49·5	3 above	53	+10	0	− 6	275	−91	365*	+16
	10. IRELAND, SOUTH	68	31	59·1	43·4	50·9	2 above	62	+12	0	− 4	371	−106	318	+62
	—CHANNEL ISLANDS	73	43	59·2	47·5	53·1	3 above	78	+23	0	− 1	477	−50	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 98.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	3	3 less	84	+ 7	14·0	− 2·6	52	+17	50	+16	330	+24	27	+ 2
	1. SCOTLAND, EAST	2	1	3 less	68	+ 5	8·4	− 0·8	61	+26	59	+26	338	− 7	27	− 1
	2. ENGLAND, N.E.	2	3	1 less	69	+ 9	6·7	− 0·3	65	+38	63	+36	372	+40	31	+ 4
	3. ENGLAND, EAST	2	1	3 less	68	+ 6	7·2	+ 0·4	84	+43	84	+43	402	−13	30	− 1
	4. MIDLAND COUNTIES	2	1	4 less	65	+ 8	8·9	+ 1·0	67	+33	66	+33	340	− 3	28	0
	5. ENGLAND, SOUTH	1	less than ½	4 less	61	+ 3	8·4	0·0	76	+36	76	+36	401	−14	31	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	2	4 less	68	− 1	14·5	− 2·5	50	+12	49	+11	391	+43	31	+ 3
	7. ENGLAND, N.W.	1	less than ½	4 less	66	+ 4	8·7	− 1·0	54	+16	53	+16	406*	+44	31	+ 3
	8. ENGLAND, S.W.	1	less than ½	6 less	64	− 3	13·0	+ 0·8	64	+20	64	+21	441	+21	35	+ 1
	9. IRELAND, NORTH	2	1	4 less	79	+ 5	11·1	+ 0·6	49	+13	48	+13	375	+29	30	+ 3
	10. IRELAND, SOUTH	2	2	4 less	68	− 1	12·0	− 1·2	44	+ 4	44	+ 5	415	+18	33	+ 2
	— CHANNEL ISLANDS	1	less than ½	5 less	79	+ 9	11·2	+ 0·9	59	+21	59	+21	430	−70	32	− 6

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was very fine and at first warm over the United Kingdom. Towards the end of the week, however, it became much cooler and less settled ; slight rain was experienced at many of our southern and eastern stations.

Temperature was much above the mean over Great Britain, and considerably so over Ireland. The excess ranged from 7° in the Midland Counties and England N.W. to 5° in several other districts, and to 2° or 3° in Ireland and the Channel Islands. The highest of the maxima were recorded either on Monday or Tuesday, when the thermometer rose to 79° in England E. and the Midland Counties, 77° in England N.E., 76° in England S., and to between 74° and 71° in most other districts. In Ireland, however, the maxima did not exceed 68°. On Saturday the maximum readings were about 50°, or even less. The lowest of the minima, which occurred on Friday or Saturday, ranged from 26° in Scotland E., 30° in Ireland N., and 31° in Ireland S., to 37° in England E., and to 43° in the Channel Islands.

Rainfall was less than the mean in all districts, the fall being scarcely appreciable in many localities.

Bright Sunshine was extremely abundant, especially over England. The percentage of the possible duration was as high as 84 in England E., and 76 in England S., and in the other parts of the Kingdom it ranged from 66 in the Midland Counties, 64 in England S.W., and 63 in England N.E., to 49 in Scotland W., and to 44 in Ireland S.

Barometer and Wind.—During the earlier part of the week the weather was influenced by very shallow depressions to the north-westward or south-westward of our Islands, and an anticyclone lying over the countries to the eastward of the North Sea. Under these conditions very light airs, generally from between South and East, were experienced, and the weather, although at times threatening, remained fine. Later in the week, however, the depressions dispersed or moved away while the anticyclone increased in intensity and finally became situated over Scandinavia, so that a North-Easterly and Easterly current of wind, which gradually acquired considerable force, set in over the United Kingdom. By the end of the period a depression extended northwards from France, causing the wind to become more Northerly on our south and east coasts, some slight rain in places, and thunder in north Devon.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	39	53·4	41·3	47·1	+ 4·6	39	2	1	0·11	- 0·33	*	*	*	*
	Stornoway	63	40	56·6	41·6	48·7	+ 4·4	49	1	3	0·44	- 0·13	52·8	+14·3	51	+12
	Wick	64	36	57·1	41·0	48·7	+ 4·4	51	3	2	0·48	+ 0·09	*	*	*	*
	Lairg ℌ	71	32	62·7	37·0	49·2	+ 5·9	71	14	1	0·09	- 0·45	*	*	*	*
	Glencarron ℌ	65	34	61·2	40·9	50·6	+ 6·3	65	3	2	0·44	- 0·58	*	*	*	*
	Fort Augustus ℌ	70	33	61·6	39·6	50·1	+ 4·4	67	7	2	0·21	- 0·26	46·9	+18·4	46	+19
	Fort William ℌ	68	35	62·0	42·2	51·6	+ 5·3	67	0	2	0·51	- 0·30	52·7	+18·2	51	+18
1. SCOTLAND, E.	Nairn	70	30	60·7	37·3	48·4	+ 3·0	65	13	2	0·11	- 0·20	*	*	*	*
	Aberdeen	65	34	56·7	38·7	47·3	+ 2·3	51	9	1	0·04	- 0·43	66·9	+28·7	65	+28
	Braemar ℌ	65	26	60·0	32·9	45·8	+ 3·6	65	25	3	0·33	- 0·17	*	*	*	*
	Ochtertyre ℌ	71	32	63·6	38·9	50·7	+ 4·8	74	9	2	0·08	- 0·44	*	*	*	*
	Leith	71	38	60·1	42·1	50·7	+ 4·2	61	0	3	0·09	- 0·26	*	*	*	*
	Marchmont ℌ	74	36	62·1	40·1	50·6	+ 6·3	68	5	2	0·07	- 0·45	65·0	+28·9	64	+29
2. ENGLAND, N.E	Alnwick Castle	69	35	59·3	38·1	48·2	+ 3·9	60	11	2	0·45	- 0·02	*	*	*	*
	Durham	71	36	63·7	39·2	50·9	+ 5·9	74	8	2	0·13	- 0·31	67·6	+35·8	66	+34
	Shields	67	41	55·9	43·1	49·2	+ 4·2	50	0	2	0·21	- 0·17	*	*	*	*
	Scarborough ℳ	?	38	?	40·9	?	?	?	?	2	0·30	- 0·12	70·9	?	70	?
	Spurn Head	56	40	53·0	44·9	48·8	+ 3·0	48	0	2	0·37	+ 0·06	*	*	*	*
	Fulbeck (Lincolnshire)	77	39	67·8	43·3	55·0	+ 8·3	91	0	2	0·21	- 0·19	*	*	*	
3. ENGLAND, E.	Hillington ℳ	77	38	66·1	43·1	54·1	+ 7·0	85	0	2	0·08	- 0·32	81·2	+42·0	80	+41
	Yarmouth	55	40	51·7	44·6	48·0	+ 2·0	42	0	1	0·02	- 0·37	*	*	*	*
	Geldeston	67	37	59·6	43·1	51·0	+ 4·1	63	0	1	0·06	- 0·29	82·9	+41·9	83	+42
	Cambridge	79	38	70·2	40·8	54·8	+ 6·6	95	3	1	0·01	- 0·35	84·3	+44·7	84	+55
	Felixstowe	60	38	54·7	45·3	49·8	+ 2·6	55	0	2	0·10	?	83·7†	?†	84†	?†
	Rothamsted	72	37	64·7	39·8	51·7	+ 4·7	77	6	2	0·06	- 0·38	79·2	+41·7	79	+42
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	35	69·9	38·6	53·5	+ 6·0	95	10	2	0·09	- 0·31	*	*	*	*
	Loughborough	76	37	67·9	41·1	53·9	+ 5·9	87	3	2	0·08	- 0·33	*	*	*	*
	Colly Weston (Stamford)	76	38	66·7	42·1	53·8	+ 6·5	83	0	2	0·18	?	*	*	*	*
	Cheadle ℳ	73	37	65·2	44·4	54·3	+ 8·4	86	0	1	0·02	- 0·47	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	73	38	65·4	44·9	54·7	+ 8·0	89	0	2	0·17	- 0·29	56·2	?	56	?
	Churchstoke ℳ	73	34	65·6	39·1	51·7	+ 6·0	80	8	2	0·09	- 0·34	53·4	+16·4	53	+16
	Hereford (Belmont) ℳ	72	36	65·1	41·4	52·7	+ 4·9	77	2	2	0·05	- 0·35	*	*	*	*
	Cirencester	71	38	65·1	42·3	53·2	+ 6·5	78	0	1	0·02	- 0·42	63·8	+25·1	64	+25
	Oxford	73	38	66·3	43·3	54·3	+ 6·3	86	0	1	0·03	- 0·35	73·1	+35·3	73	+35
5. ENGLAND, S.	London	76	40	67·6	45·6	56·1	+ 6·8	99	0	0	—	- 0·38	71·9†	+38·9†	72†	+39†
	Swarraton (Alresford) ℳ	73	35	66·0	40·9	52·9	+ 6·2	81	3	1	0·06	- 0·38	*	*	*	*
	Dungeness	67	41	58·7	45·3	51·7	+ 3·9	68	0	1	0·02	- 0·28	79·2	?	79	?
	Hastings (St. Leonards)	68	39	62·7	47·0	54·5	+ 6·4	88	0	0	—	- 0·41	82·4	+38·4	82	+38
	Southampton	74	38	65·9	45·6	55·3	+ 5·8	93	0	1	0·02	- 0 42	74·5	+32·0	75	+33
	Portland Bill	65	37	56·6	46·4	51·2	+ 2·0	64	0	1	0·12	?	*	*	*	*
	Shaftesbury ℳ	71	37	62·3	45·9	53·7	+ 6·5	82	0	1	0·02	- 0·53	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	68	38	63·6	43·1	52·9	+ 6·1	76	0	3	0·75	- 0·10	*	*	*	*
	Glasgow	69	38	60·9	42·8	51·4	+ 5·4	66	0	1	0·01	- 0·49	44·9	+12·9	44	+13
	Glenlee ℌ	71	33	64·5	37·6	50·4	+ 4·8	77	12	2	0·06	- 0·61	*	*	*	*
	Douglas (Isle of Man)	66	39	59·9	42·7	50·9	+ 4·3	62	0	1	0·03	- 0·51	54·7	+ 9·9	54	+10
7. ENGLAND, N.W.	Newton Reigny	72	33	64·7	41·6	52·6	+ 7·9	76	1	2	0·05	?	58·5	?	57	?
	Stonyhurst	69	38	63·6	44·3	53·5	+ 7·0	81	0	2	0·03	- 0·53	65·0	+27·8	64	+28
	Blackpool ℳ	71	35	65·2	42·0	53·0	+ 5·9	77	0	0	—	- 0·42	52·3	+14·5	51	+14
	Manchester (Prestwich)	72	38	65·5	43·9	54·2	+ 7·5	85	0	2	0·03	- 0·45	57·6	?	56	?
	Liverpool Obsy. (Bidston)	71	39	64·6	45·4	54·5	+ 6·6	88	0	1	0·02	- 0·35	48·0	?	48	?
	Chester (Hawarden Bridge)	73	37	66·9	43·0	54·4	+ 6·2	87	0	0	—	?	*	*	*	*
	Llandudno ℳ	71	42	65·1	47·2	55·7	+ 7·6	96	0	1	0·04	- 0·38	45·6	+ 6·6	45	+ 6
	Holyhead	71	40	59·0	45·3	51·8	+ 4·0	69	0	0	—	- 0·44	*	*	*	*
8. ENGLAND, S.W.	Llandovery	74	35	66·1	43·3	54·2	+ 6·5	85	0	1	0·03	- 0·59	*	*	*	*
	Pembroke	64	38	58·6	46·0	52·0	+ 4·7	70	0	1	0·06	- 0·39	61·7	+16·7	62	+17
	Clifton												*	*	*	*
	Bath	74	40	65·9	43·3	54·1	+ 5·4	85	0	0	—	?	?	?	?	?
	Arlington (N. Devon)	73	37	64·4	43·7	53·6	+ 7·1	81	0	0	—	- 0·66	*	*	*	*
	Cullompton ℳ	74	37	65·4	41·2	52·7	+ 3·7	78	2	0	—	- 0·55	57·7	+18·9	57	+18
	Falmouth	60	39	56·4	45·9	50·9	+ 2·1	62	0	1	0·04	- 0·59	70·3	+25·0	71	+25
	Plymouth	69	40	62·7	46·9	54·4	+ 4·8	87	0	1	0·01	- 0·51	68·4	+25·4	69	+26
9. IRELAND, N.	Malin Head	58	39	53·9	43·7	48·6	+ 1·8	46	0	3	0·35	?	*	*	*	*
	Londonderry	62	33	54·9	40·2	47·3	- 0·7	45	5	3	0·10	- 0·45	*	*	*	*
	Edenfel (Omagh)	68	35	61·9	42·0	51·5	+ 5 5	67	0	1	0·20	- 0·33	*	*	*	*
	Blacksod Point	65	40	55·9	42·6	48·9	+ 0·7	48	0	2	0·14	?	*	*	*	*
	Markree Castle	64	30	59·4	40·2	49·3	+ 2·6	59	5	1	0·18	- 0·37	47·1	+10·5	46	+10
	Armagh	68	35	61·8	42·9	51·9	+ 5·3	69	0	1	0·02	- 0·48	50·0	+14·7	49	+14
	Donaghadee	62	39	56·6	42·6	49·3	+ 2·5	51	0	0	—	- 0·45	*	*	*	*
10. IRELAND, S.	Dublin	65	40	59·3	46·2	52·4	+ 3·8	73	0	1	0·02	- 0·43	38·1	- 2·4	38	- 2
	Parsonstown	68	31	62·0	41·6	51·3	+ 3·5	67	1	1	0·12	- 0·38	46 0	+ 8·2	46	+ 9
	Kilkenny	67	35	60·7	42·4	51·1	+ 2·9	64	0	0	—	- 0·52	*	*	*	*
	Roche's Point	58	40	54·9	45·6	50.0	+ 1·0	56	0	1	0·04	- 0·66	*	*	*	*
	Valencia	61	36	56·9	42·9	49·6	+ 0·1	53	0	3	0·14	- 0·68	47·6	+ 6·6	48	+ 7
	Killarney	66	35	58·4	42·8	50·2	+ 1·7	57	0	4	0·92	+ 0·15	*	*	*	*
	Foynes	68	34	61·4	42·5	51·4	+ 3·2	66	0	1	0·02	- 0·55	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	43	54·7	46·6	50·5	+ 1·0	60	0	1	0·01	- 0·46	35·7	?	36	?
	Jersey	73	43	63·7	48·4	55·7	+ 5·6	96	0	1	0·02	- 0 43	69·0	+20·5	70	+21

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

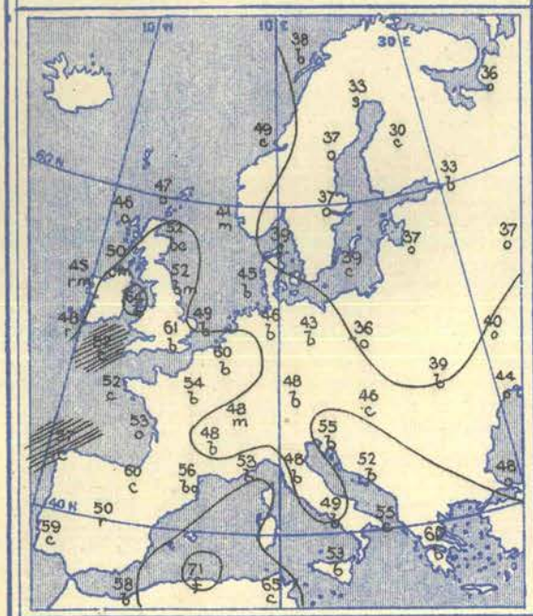
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 21st April.

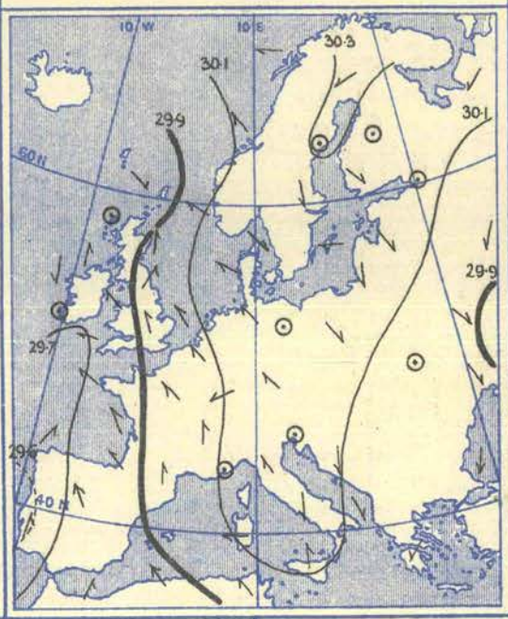
Temperature and Weather.

8 a.m.

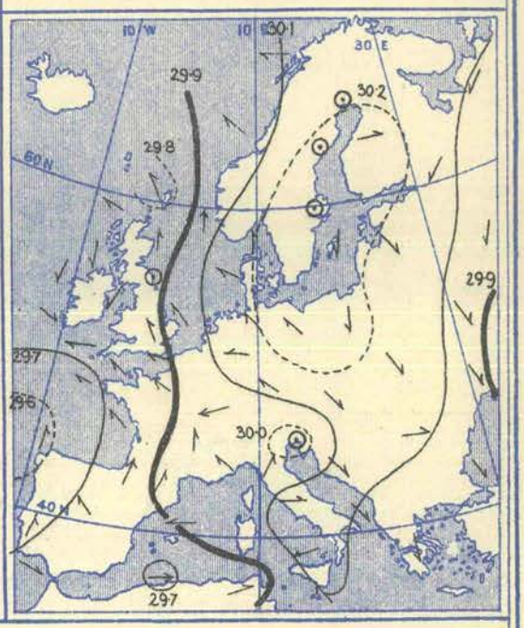


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy at several Swedish stations, and cloudy and rainy in the extreme west of the British Islands, fine and bright elsewhere. Some rain later at our extreme northern and north-western stations, as well as over the Spanish Peninsula, at Algiers, and in the extreme south and south-west of France, very fine over Germany and central Europe as a whole, but slight falls in Hungary.

Temperature inclined to fall in the east of Scotland and north of Ireland, risen at most stations in our area. Morning readings highest, 71° at Algiers, and above 60° at many stations on the southern side of the Mediterranean, above 50° in most parts of France, 60° at Brussels, 61° in London, and above 50° over Ireland and England generally. Lowest, 30° at Kuopio, not so high as 40° over northern Europe, the Baltic, and north Germany. Rising later to more than 70° in many parts of our Islands, to 77° at Paris and Rochefort, 82° at Palma, 86° at Algiers and La Calle.

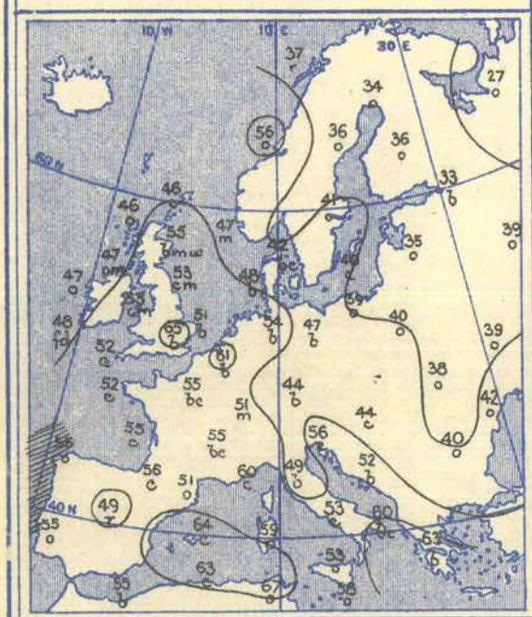
Wind very light and variable over the greater part of the Continent, but South-Easterly on the western coasts, Easterly and South-Easterly over England, calm in Scotland, and nearly so in Ireland. Very little change later, but the South-Easterly breeze extending Eastwards over the North Sea.

Barometer highest, 30·3 ins. and more over the north of Sweden, and exceeding 30·1 ins. in a broad ridge stretching from that locality over central Europe to Italy and the eastern half of the Mediterranean. Lowest, (1) 29·6 ins. to 29·7 ins. over Portugal and the western parts of the Bay of Biscay; (2) about 29·8 ins. over the south-east of Russia. Very little change later, beyond tendency of depression off Sweden to move northwards.

Monday, 22nd April.

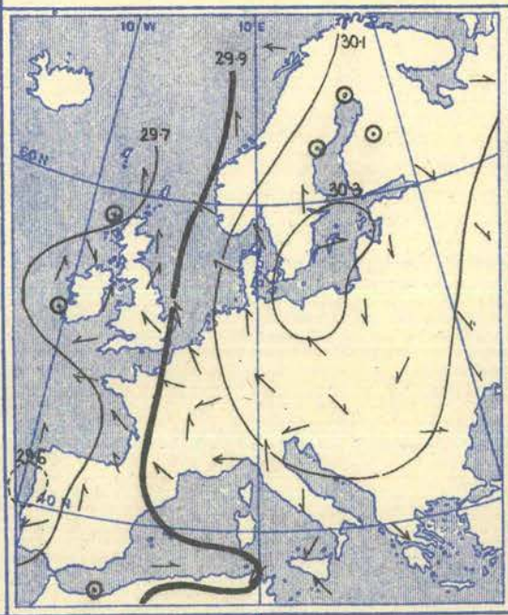
Temperature and Weather.

8 a.m.

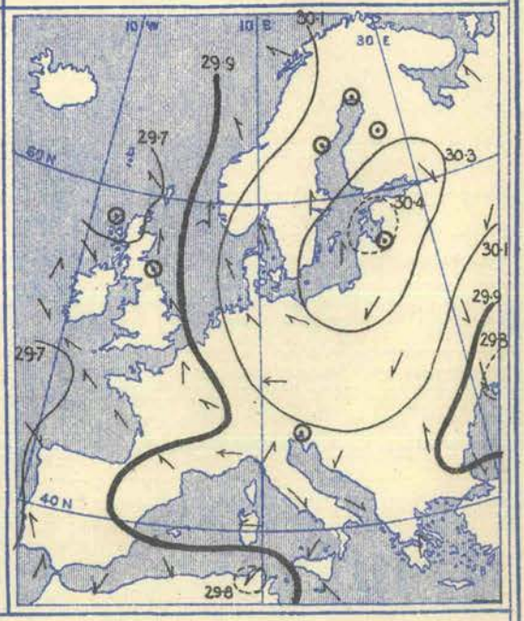


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine generally over central Europe and the British Islands as a whole, but dull at some of the extreme western stations, and rather rainy at Valencia. Dull, also, over Russia and some parts of the Mediterranean. Rain, later, in the northern parts of Scotland and Ireland, as well as in Portugal, the south of Spain, and the extreme south-west and south of France, and in parts of Hungary and south of Russia; a thunderstorm at Algiers.

Temperature risen a little very generally. Morning readings highest, 67° at La Calle and above 60° at many stations on the southern side of the Mediterranean, much lower on the Atlantic coasts, and also over Russia, 65° in London, 60° at Oxford, 61° at Brussels. Lowest, (1) below 40° over Russia, Hungary and Sweden, much below 50° over Germany; (2) 47° to 48° in the west of Ireland. Rising later to 70° and more in the east of Scotland, to 76° at Loughborough, 74° in London, 75° at Paris, 81° at Rochefort.

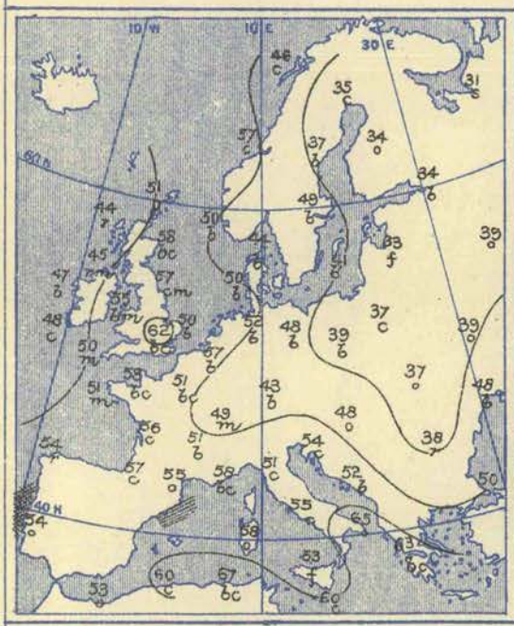
Wind (1) nearly calm over the Baltic and central Europe; (2) Easterly to Southerly over all the western countries (varying locally); (3) North-Westerly to Northerly in Russia, variable over the Mediterranean. Very little change later but a slight admixture of light North-Westerly wind occurring at some of our western stations, and the region of calms over the Baltic spreading eastwards.

Barometer.—Highest, 30·3 ins. and more over the Baltic and exceeding 30·1 over Sweden, Germany, Austria and the West of Russia. Lowest, (1) below 29·9 ins. over the south of Russia; (2) 29·59 ins. at Oporto, 29·68 ins. at Stornoway and below 29·8 ins. all over Scotland, Ireland, and the western parts of France and the Spanish Peninsula. Falling later over the south of Russia; very little change elsewhere

Tuesday, 23rd April.

Temperature and Weather.

8 a.m.

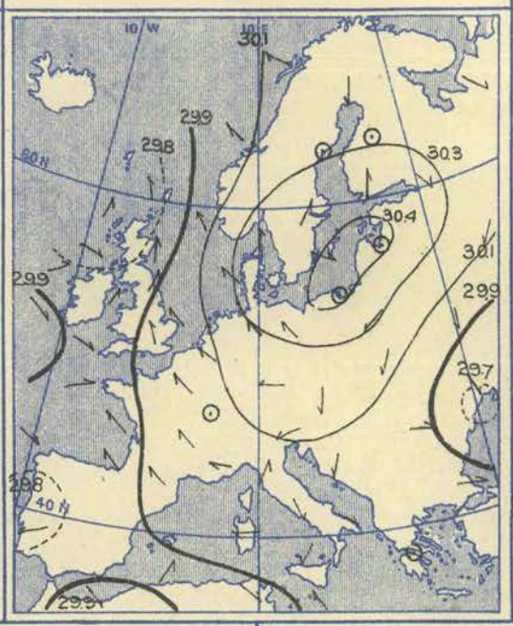


Weather in morning very fine over the Baltic, central Europe and the greater parts of our Islands, but dull at several of our western stations, very hazy about the mouth of the English Channel and on the coasts of Brittany. Some rain later in Scotland and the extreme north of Ireland as well as in various parts of Spain and the south-west of France; local showers over south-eastern Europe also.

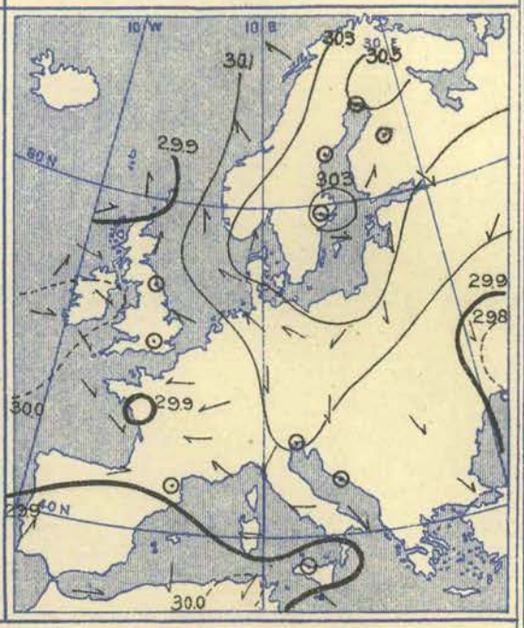
Temperature again risen a little over western Europe, fallen over the central countries. Morning readings highest, 67° at La Calle, 65° at Brindisi, 62° at London, 56° at Newton Reigny and Nairn. Lowest, 31° at Archangel and below 40° over Russia and the north of Sweden. Rising later to 75° at Loughborough, 76° in London and at Paris, 86° at Biskra, but not exceeding 68° at Oporto, Florence or Palermo, and still less over the more eastern and southern stations of Europe.

Barometer and Wind.

8 a.m.



6 p.m.



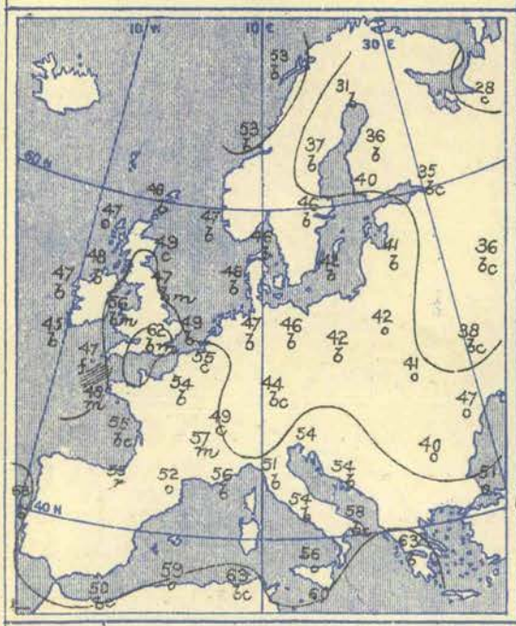
Wind remaining light and anticyclonic over Russia and Germany; South-Easterly over the north of France, Southerly over the eastern parts of our Islands, very variable indeed over Ireland, South-Easterly over the Bay of Biscay. Changing very irregularly later, and becoming still lighter in most places; shifting to North on the coasts of Wales and the south-east of Ireland.

Barometer highest, 30·4 ins. and more over the Baltic provinces, and exceeding 30·1 ins. over Scandinavia and Germany, 29·8 ins. at Valencia. Lowest, 29·8 ins. and less over Scotland and over the south of Portugal; 29·69 ins. at Odessa. Increasing a little later over the British Islands and Norway. Depression over south of Russia moving north-eastwards.

Wednesday, 24th April.

Temperature and Weather.

8 a.m.

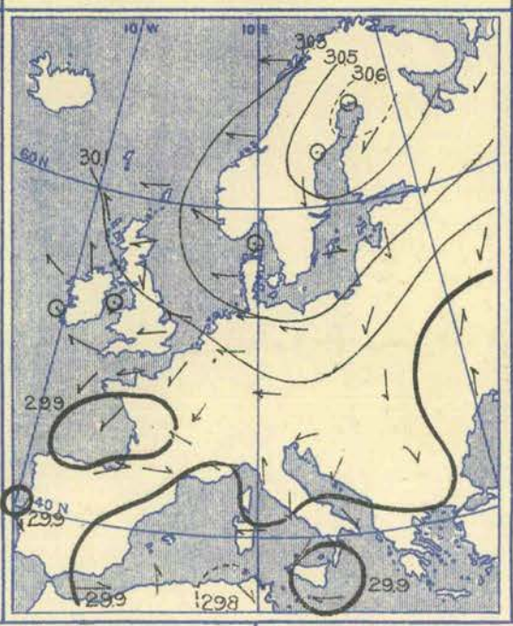


Weather in morning very fine in nearly all places, but foggy or hazy over the western parts of the English Channel, rainy at Bilbao and Biarritz, and at Cagliari. Much rain later in many parts of Algeria, at Cagliari and in the south of Russia, a little at Biarritz, and in a few parts of France, lightning and thunder in places, but remaining exceptionally fine in the British Islands.

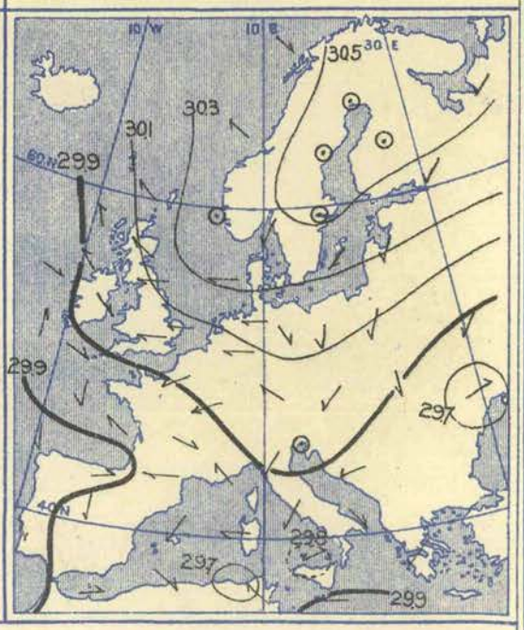
Temperature fallen considerably over the United Kingdom, risen a little over France and Germany. Morning readings above 60°, (1) at some places on the south side of the Mediterranean, and at Oporto, (2) at Portland and in London, 54° at Penrith, 53° at Christiansund, 51° at Shields and Frankfürt. Lowest, 28° at Archangel, below 40° all over the north of Russia, Finland, and the north of Sweden, 42° at Wisby, at Warsaw, and at Breslau. Rising later to between 74° and 70° over central England, 75° in the west of France, but to only 66° at Naples, 63° at Nice, and 61° at Malta. Succeeding night in our Islands cooler than of late.

Barometer and Wind.

8 a.m.



6 p.m.



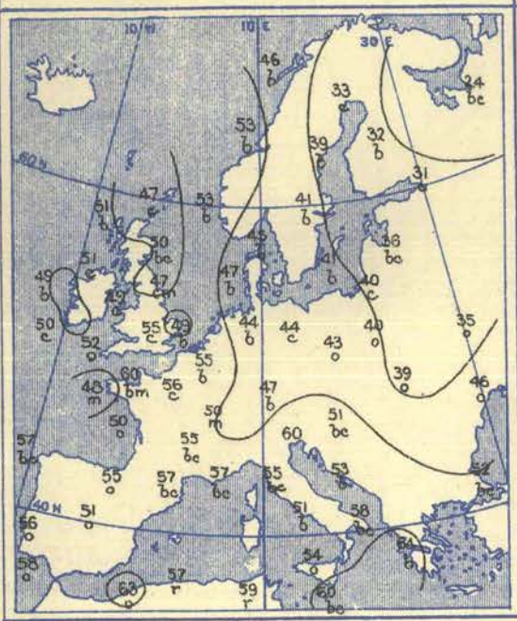
Wind North-Easterly to Northerly over the north of Russia and north Germany, South-Easterly to North-Easterly over Great Britain and Channel, very variable Ireland, North-Easterly over Bay of Biscay, mainly from North-East to East over the Mediterranean. Very little change later, but Easterly wind inclined to increase a little in force over England.

Barometer highest, 30·6 ins. at Haparanda, 30·5 ins. and more over the northern parts of Sweden and in Finland, and exceeding 30·2 ins. all over north of Europe. Lowest, 29·8 ins. in a shallow depression over Algeria, below 29·9 ins. over nearly the whole of the Mediterranean, and in a depression over the south-west of France, and southern parts of the Bay of Biscay. Giving way a little very generally during day, and a new definite depression appearing near Odessa.

Thursday, 25th April.

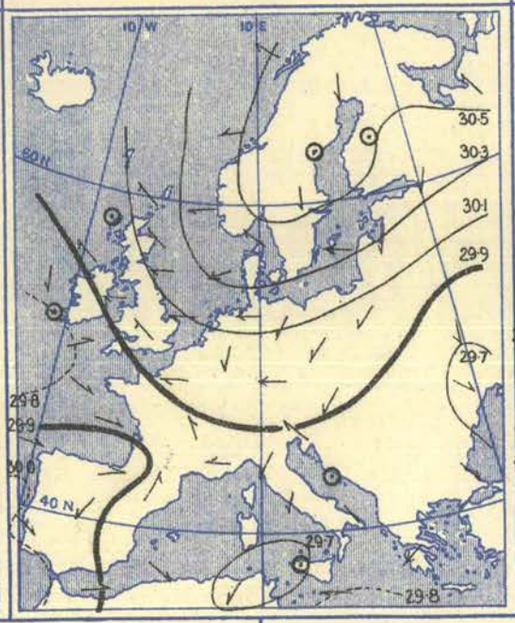
Temperature and Weather.

8 a.m.

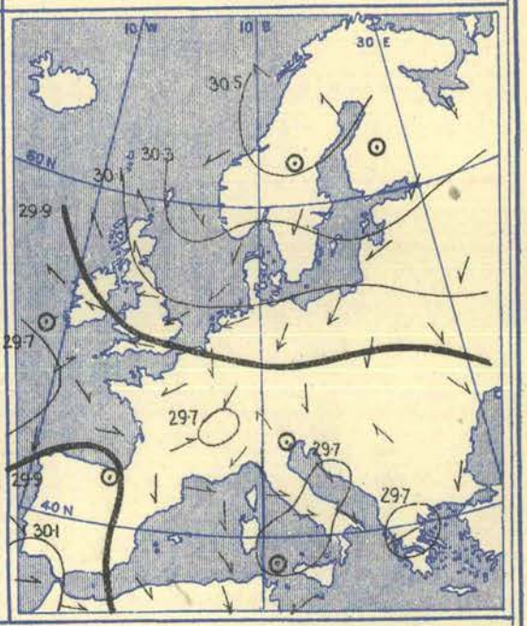


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning remaining very fine over northern Europe and most parts of the central countries and the British Islands, but scarcely so fair in the latter regions than on Wednesday. Rain again at several of the Mediterranean stations but not in north of Spain. A little rain later at Valencia (Ireland) and in the south-west and south of France, also at Bilbao and Kharkov. Brilliant conditions maintained over the greater part of the British Islands.

Temperature still giving way over the British Islands and in some parts of France. Morning readings exceeding 60° at a few of the Mediterranean stations and touching 60° at Jersey—lower elsewhere. Lowest, 24° at Archangel, 32° at Kuopio and below 40° at several Russian stations; 40° to 45° over a great deal of central Europe, and 47° in the north-east of Scotland. Rising later to only 66° in London, and falling very considerably towards night.

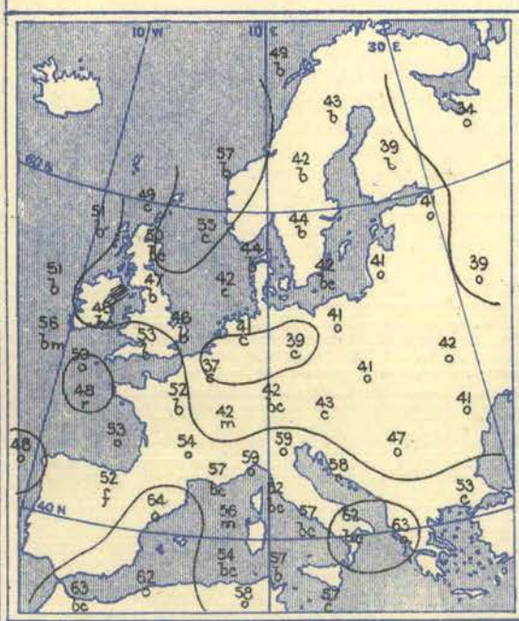
Wind North-Easterly over the Baltic provinces and Easterly to North-Easterly over Germany. Easterly over the North Sea and England. South-Easterly in Scotland, but Westerly over the west of France and in Portugal. North-Easterly to Northerly over the Mediterranean. Increasing later to a strong breeze over the Baltic and freshening greatly over the North Sea and England; veering to North-West over Spain.

Barometer highest, (1) 30·5 ins. and more to 30·2 ins. over northern Europe and the Baltic; (2) 29·9 ins. and more over the Spanish Peninsula. Lowest, 29·7 ins. and less over the south of Russia, and in a second area covering Tunis and the west of Sicily; 29·8 ins. and less off our extreme south-west coasts. Rising a little in Scotland later. Various fresh shallow disturbances appearing over the Balkan Peninsula and Italy.

Friday, 26th April.

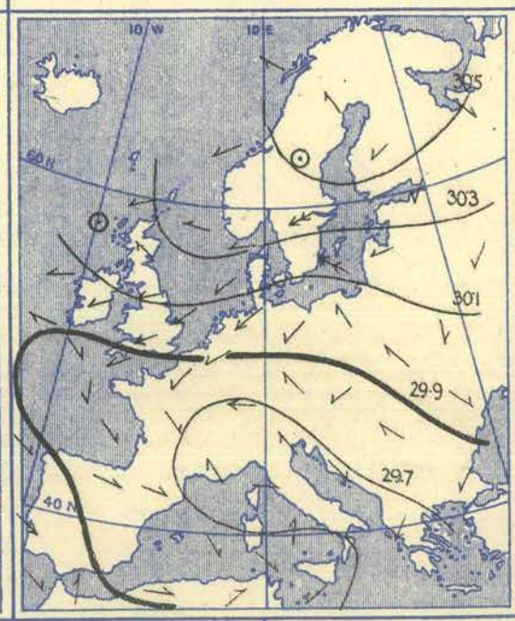
Temperature and Weather.

8 a.m.

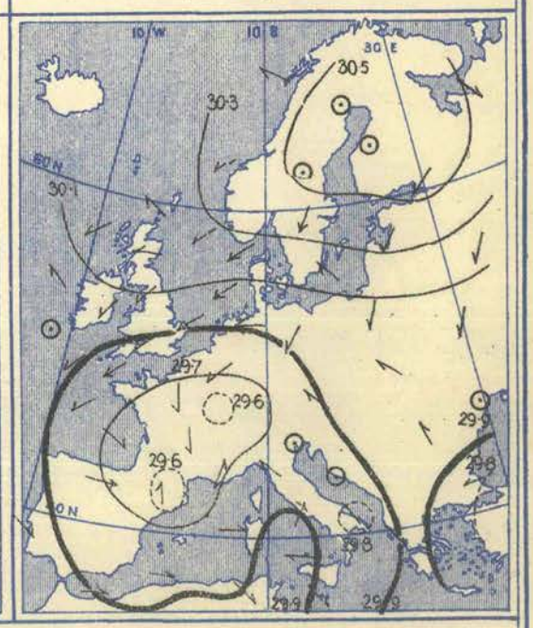


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over northern Europe, the British Islands and the Netherlands, but not so fair over southern and eastern Europe; rain falling at Kharkov, Lyons, and Limoges. Rain falling later at most places in the south of France (2·8 ins. at Biarritz), in some parts of Germany and at our own north-eastern and eastern stations and local showers at Kharkov and in parts of Austria, a thunderstorm at Trieste.

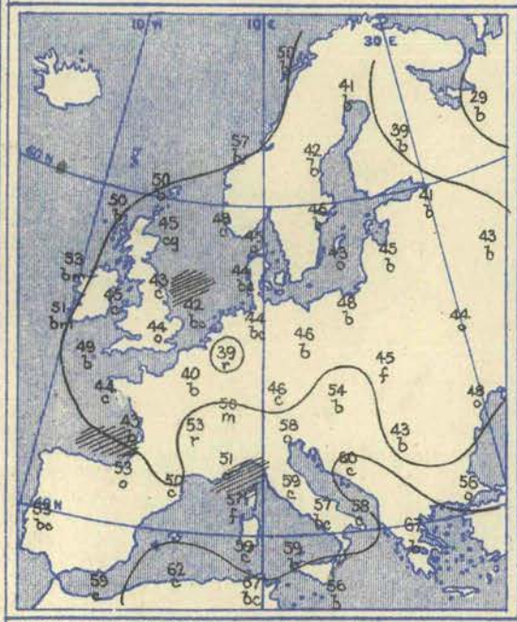
Temperature, still falling over the British Islands, falling in some parts of Germany also. Morning readings highest, 63° at Patras, 62° at Brindisi and Algiers, 56° at Valencia, 50° at Scilly, 57° at Christiansund. Lowest, 34° at Archangel, 39° at Kupio, Moscow, and Lemberg, 37° at Warsaw, Breslau, and Münster. Touching 68° to 69° at some of our western stations during the day, 64° in the west of France and at Nice, 68° at Rome and Brindisi, 70° at Perpignan and Palermo, 73° at Algiers. Succeeding night cold over the British Isles—almost frosty on the grass.

Wind very light and variable over northern Europe but Easterly or North-Easterly all over the Baltic, the North Sea and England, and blowing a gale at Stockholm and Wisby, and a strong increasing breeze on our own south-eastern coasts. Light Northerly to Westerly over the Bay of Biscay and the Spanish Peninsula, very variable over the Mediterranean. Increasing later to a moderate gale from East-North-East over the southern portion of the North Sea, but remaining light in Ireland and Scotland. Shifting to South over the northern parts of the Mediterranean.

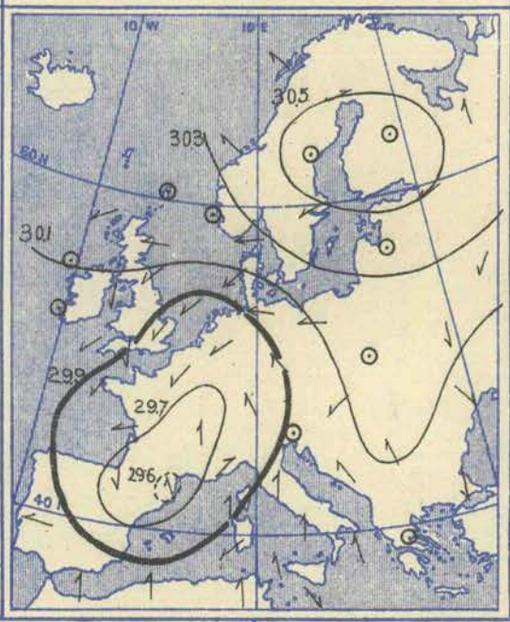
Barometer highest, 30·6 ins. at Haparanda and exceeding 30·3 ins. generally over the most northern countries in Europe; exceeding 30·0 ins. in the south-west of Spain also. Lowest 29·6 ins. to 29·7 ins. in a depression near Nice and another over Greece; 29·3 ins. and less over the south of Russia. Further disturbances appearing over France later and barometer inclined to fall over Europe, but to rise in the west of Ireland.

Saturday, 27th April.

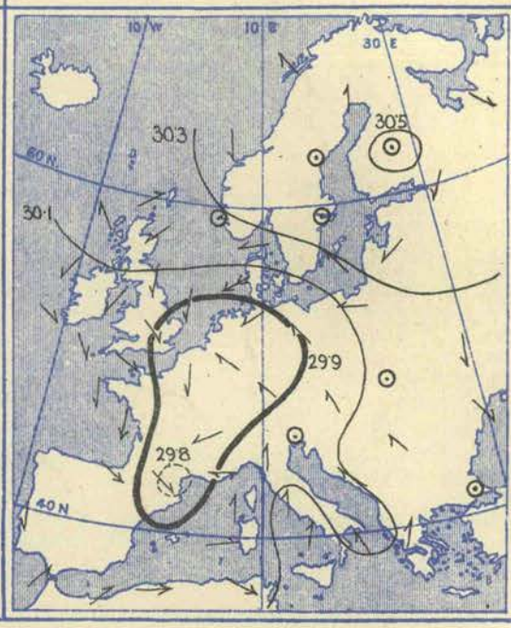
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over northern, eastern, and central Europe, and in many parts of the British Islands, but becoming less and less settled than of late, rain falling over the southern half of France, at the Helder, and on our own north-east coasts. Rain falling later in many places, especially over southern Europe, France, and the Netherlands, the amounts being large in the south of France and in Italy, but remaining fine over northern Europe and the northern and western parts of the United Kingdom.

Temperature still going down over the greater part of western Europe, rising over Germany and Russia. Morning readings highest, 67° at Athens and La Calle, 62° at Algiers, 60° to 56° in many parts of the Mediterranean and Adriatic, 53° at Lisbon, Biarritz, and Blacksod Point, 51° at Valencia, 57° at Christiansund. Lowest, 29° at Archangel, 41° at Haparanda, and above 40° at all the European stations excepting Munich (39°), rising later to not nearly so high a point over our Islands as of late, but high in the west of Norway, and touching 75° at Hermanstadt, 77° at Brindisi.

Wind Easterly over the greater part of northern Europe, North-Easterly to Northerly over England and the north-western half of France, North-Westerly at Biarritz, South-Westerly over the Riviera, South-Easterly to Easterly over Germany. A singular shift to between West and South noticed in the extreme north of Europe. Very little change later except near Perpignan, where wind shifted from South-East to North-West.

Barometer highest (1) 30·5 ins. and more over Finland and Sweden, and exceeding 30·2 ins. all over northern Europe; (2) 30·0 ins. and more at Lisbon, over Algeria and south-eastern Europe. Lowest (1) 29·6 ins. and less to 29·7 ins. in a depression over the south-west of France, (2) 29·9 ins. and less in another over the south of Russia. Both depressions tending to "fill up" later, and barometer falling a little over our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶⟶ = a fresh to strong breeze: ⟶⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was highest (30·3 ins. and more to 30·2 ins.) over Scandinavia and central Europe, whence it decreased both in an easterly and a westerly direction to 29·8 ins. over the south of Russia, and to 29·8 ins. and less over the Bay of Biscay, and 29·6 ins. at Lisbon. In Russia the wind was faint from North, but over western Europe it was light from South and South-East, and in some parts of those regions temperature was much about its normal value. Gradually the anticyclone moved eastwards, and in our Islands and their neighbourhood pressure became less regularly distributed; but after Tuesday a new high pressure system was developed over northern Europe, and as pressure gave way somewhat over France and Spain the wind in our Islands backed slowly to the Eastward, and the temperature fell.

The week closed with cold Easterly to North-Easterly breezes in place of the warm Southerly winds, and weather much less settled than of late—rain falling in several places, and thunder occurring in north Devon.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	59·8	+23·3	57	+20	BRIGHTON	76·5	+33·5	77	+33
STRATHPEFFER SPA	48·4	+13·2	47	+13	WORTHING	76·9	?	77	?
EDINBURGH	49·5	+18·3	49	+19	BOGNOR	78·3*	?	78*	?
MORPETH	59·8	?	59	?	WATERGATE (Emsworth)	76·8	?	77	?
NEWCASTLE-ON-TYNE	50·9	?	50	?	WESTBOURNE (Emsworth)	80·1*	+35·1	80*	+35
OSWALDKIRK (Yorkshire)	73·6	+39·6	72	+39	VENTNOR HOSPITAL	73·2	+27·2	73	+27
LOWESTOFT	87·3	?	87	?	SOUTHPORT	58·2	?	57	?
HOLLESLEY BAY	88·3	?	88	?	RHYL	58·6*	?	58*	?
SHEFFIELD	63·4	?	63	?	COLWYN BAY	43·4	?	43	?
WORKSOP	76·0	+43·6	75	+43	ABERDOVEY	48·9*	?	48*	?
THURCASTON (Leicestershire)	79·9	+45·4	79	+45	TENBY	62·5	+16·5	63	+17
MARGATE	83·8	+45·8	84	+45	NEWQUAY	60·4	+17·4	61	+17
BROADSTAIRS	49·5	?	50	?	TORQUAY	67·3	+24·2	68	+24
EASTBOURNE	78·1	+34·2	78	+34	GUERNSEY	71·2*	+22·2	72*	+22

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 18.] *Third Series* — WEEK ENDING SATURDAY, MAY 4TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 104.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	31	59·0	40·3	49·1	4 above	57	+22	5	- 7	259	+20	550	+17
	1. SCOTLAND, EAST	73	31	59·0	38·4	48·1	2 above	58	+15	10	- 2	259	-51	637	+48
	2. ENGLAND, N.E.	67	38	53·9	41·0	47·1	1 above	40	- 2	3	- 5	272	-45	508	+14
	3. ENGLAND, EAST	68	30	56·8	39·6	47·8	0 (average)	51	- 3	7	- 1	314	-83	551	+11
	4. MIDLAND COUNTIES	68	29	58·4	38·8	48·0	0 (average)	55	0	9	0	349	-78	573	+29
	5. ENGLAND, SOUTH	69	29	58·3	40·7	49·0	0 (average)	54	- 5	4	0	351	-106	443	+39
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	35	61·2	41·0	50·5	3 above	64	+17	3	- 4	315	-25	460	+38
	7. ENGLAND, N.W.	68	34	57·7	41·8	49·3	1 above	52	+ 3	1	- 5	315	-40	451	+51
	8. ENGLAND, S.W.	67	28	58·7	41·2	49·4	0 (average)	55	+ 1	2	- 1	391	-74	369	+55
	9. IRELAND, NORTH	70	30	58·9	39·7	48·7	1 above	57	+ 9	6	+ 1	332	-82	371	+17
	10. IRELAND, SOUTH	69	30	60·3	40·2	49·6	0 (average)	61	+ 5	5	+ 2	432	-101	323	+64
	—CHANNEL ISLANDS	64	39	55·9	45·4	50·3	1 below	58	- 4	0	0	535	-54	160	+38

Rainfall. — Bright Sunshine.

	DISTRICTS. (See p. 104.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	1	5 less	86	+ 6	14·1	- 3·1	53	+17	50	+16	383	+41	29	+ 3
	1. SCOTLAND, EAST	2	1	3 less	70	+ 4	8·5	- 1·2	50	+13	47	+12	388	+ 6	29	+ 1
	2. ENGLAND, N.E.	3	3	2 less	72	+ 9	7·0	- 0·4	37	+ 2	35	+ 1	409	+42	31	+ 3
	3. ENGLAND, EAST	2	1	4 less	70	+ 5	7·3	+ 0·1	41	- 4	40	- 4	443	-17	30	- 1
	4. MIDLAND COUNTIES	1	less than ½	4 less	66	+ 5	8·9	+ 0·6	33	- 1	31	- 2	373	- 4	28	- 1
	5. ENGLAND, SOUTH	1	1	4 less	62	+ 1	8·5	- 0·3	54	+11	54	+11	455	- 3	33	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	6 less	70	- 3	14·6	- 3·1	55	+14	52	+13	446	+58	33	+ 4
	7. ENGLAND, N.W.	2	3	1 less	68	+ 3	9·0	- 1·2	46	+ 8	44	+ 8	452	+52	32	+ 3
	8. ENGLAND, S.W.	1	1	5 less	65	- 5	13·1	- 0·2	51	+ 6	49	+ 4	492	+28	37	+ 3
	9. IRELAND, NORTH	1	less than ½	5 less	80	+ 3	11·1	+ 0·1	58	+20	55	+18	433	+49	32	+ 4
	10. IRELAND, SOUTH	1	2	4 less	69	- 4	12·2	- 1·6	63	+21	60	+20	478	+40	35	+ 3
	— CHANNEL ISLANDS	3	12	8 more	82	+ 9	12·4	+ 1·7	52	- 4	52	- 3	482	-74	33	- 6

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather continued fine and dry over the Kingdom generally, but rain was experienced during the earlier days of the period at some of our western stations and in the English Channel, and in some north-western localities towards the end of the week. The rain in the last-named district was accompanied by thunder and lightning.

Temperature was above the mean in most parts of the Kingdom, but only just equal to it in some of the English districts, and in Ireland S., and slightly below it in the Channel Islands. The highest of the maxima were recorded, as a rule, on May 3rd or 4th, and varied from 73° in Scotland E., 72° in Scotland N., and 70° in Scotland W. and Ireland N. to 67° in England N.E. and S.W., and to 64° in the Channel Islands. The lowest of the minima occurred during the earlier half of the week, when the thermometer fell to 28° in England S.W. to 29° in the Midland Counties and England S., and to 30° in England E. and over Ireland; elsewhere the minima ranged from 31° in Scotland N. and E. to 35° in Scotland W., and to 39° in the Channel Islands.

Rainfall was less than the mean in all districts except the Channel Islands, where, owing to a heavy fall on the 28th, there was a considerable excess.

Bright Sunshine again exceeded the mean in nearly all districts. The percentage of the possible duration ranged from 60 in Ireland S., 55 in Ireland N., and 54 in England S., to 35 in England N.E., and 31 in the Midland Counties.

Barometer and Wind.—During the earlier part of the week several shallow depressions were observed in the south-western and southern parts of our area, while the barometer was highest, and the distribution of pressure anticyclonic, over Scandinavia. The winds, although varying in direction locally, were mainly from between North and East, and light or moderate in force. Later in the week the depressions in the south and south-west disappeared, and the northern anticyclone was gradually transferred to the northern parts of the United Kingdom, the change in the distribution being accompanied by the shifting of the wind to a more northerly point.

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II.—DATA from which the SUMMARY on page 103 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	62	35	54·3	42·0	47·8	+ 4·6	41	0	0	—	- 0·44	*	*	*	*
	Stornoway	64	40	59·0	41·7	49·8	+ 4·8	56	1	1	0·02	- 0·56	66·0	+26·2	61	+21
	Wick	60	33	56·1	38·7	46·9	+ 1·7	48	9	2	0·08	- 0·32	*	*	*	*
	Lairg Ⓢ	72	31	63·9	35·9	49·0	+ 4·9	75	17	1	0·01	- 0·51	*	*	*	*
	Glencarron Ⓢ	68	39	61·3	40·9	50·8	+ 5·7	66	3	2	0·15	- 0·89	*	*	*	*
	Fort Augustus Ⓢ	69	35	57·3	40·6	48·4	+ 1·8	51	4	3	0·09	- 0·39	41·4	+12·6	39	+12
	Fort William Ⓢ	65	39	60·8	42·4	51·1	+ 3·8	64	0	3	0·13	- 0·68	46·8	+10·7	44	+10
1. SCOTLAND, E.	Nairn	68	34	57·6	38·7	47·6	+ 1·1	53	9	3	0·04	- 0·31	*	*	*	*
	Aberdeen	64	35	55·7	39·7	47·2	+ 1·3	46	6	2	0·26	- 0·21	49·3	+ 9·5	46	+ 9
	Braemar Ⓢ	65	31	58·0	36·3	46·7	+ 3·7	57	16	2	0·11	- 0·39	*	*	*	*
	Ochtertyre Ⓢ	73	33	64·7	38·6	50·9	+ 4·0	77	10	2	0·06	- 0·47	*	*	*	*
	Leith	73	37	58·1	41·4	49·3	+ 1.9	54	2	2	0·21	- 0·15	*	*	*	*
	Marchmont Ⓢ	67	31	59·7	35·4	46·8	+ 1·5	61	18	2	0·09	- 0·44	51·3	+13·8	48	+13
2. ENGLAND, N.E	Alnwick Castle	62	38	54·9	40·9	47·5	+ 2·3	43	3	2	0·07	- 0·41	*	*	*	*
	Durham	63	38	53·9	40·3	46·7	+ 0·5	40	5	4	0·30	- 0·14	38·9	+ 4·9	37	+ 3
	Shields	55	39	50·7	40·6	45·4	- 0·6	30	4	4	0·31	- 0·06	*	*	*	*
	Scarborough Ⓜ	56	39	53·9	40·7	46·9	+ 0·2	40	4	3	0·82	+ 0·39	29·7	?	28	?
	Spurn Head	54	38	51·3	41·9	46·3	- 0·6	31	0	0	—	- 0·34	*	*	*	*
	Fulbeck (Lincolnshire)	67	38	58·7	41·4	49·5	+ 1·7	55	2	2	0·05	- 0·35	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	63	34	57·1	39·9	48·0	0·0	51	6	1	0.03	- 0·37	30·0	-11·8	29	-11
	Yarmouth	57	38	51·3	43·4	47·1	+ 0·1	36	0	3	0·10	- 0·30	*	*	*	*
	Geldeston	64	35	57·5	39·4	47·9	+ 0·1	52	7	2	0·12	- 0·25	40·9	- 3·3	40	- 3
	Cambridge	68	53	61·7	37·7	49·0	- 0·2	67	12	1	0·01	- 0·37	41·4	- 0·4	40	- 1
	Felixstowe	62	36	55·1	40·7	47·5	0·0	44	4	2	0·05	?	50·4†	?†	49†	?†
	Rothamsted	64	30	58·2	36·7	47·2	- 0·8	59	15	0	0·01	- 0·44	39·7	- 0·3	38	0
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	35	60·4	40·7	50·0	+ 1·7	61	4	1	0·02	- 0·40	*	*	*	*
	Loughborough	66	33	59 0	39·4	48·6	- 0·6	57	7	2	0·02	- 0·40	*	*	*	*
	Colly Weston (Stamford)	62	35	58·3	38·6	47·9	- 0·4	56	10	2	0·04	?	*	*	*	*
	Cheadle Ⓜ	64	34	57·1	39·9	48·0	+ 1·2	51	6	0	—	- 0·49	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	62	36	55·7	40·1	47·4	- 0·3	46	5	1	0·03	- 0·45	20·9	?	20	?
	Churchstoke Ⓜ	63	32	58·6	39·3	48·4	+ 1·6	56	8	1	0·03	- 0·42	40·4	+ 0·8	39	+ 1
	Hereford (Belmont) Ⓜ	63	30	59·0	37·2	47·5	- 1·5	59	13	1	0·01	- 0·40	*	*	*	*
	Cirencester	64	29	58·4	34·9	46·0	- 1·6	58	20	0	—	- 0·46	47·8	+ 6·5	46	+ 6
	Oxford	66	32	59·0	38·9	48·4	- 0·8	58	9	0	—	- 0·39	41·6	+ 1·7	40	+ 1
5. ENGLAND, S.	London	69	34	61·1	40·1	50·0	- 0·5	64	5	0	—	- 0·39	38·9†	+ 3·1†	38†	+ 4†
	Swarraton (Alresford) Ⓜ	65	29	58·9	35·3	46·4	- 1·3	59	19	0	—	- 0·44	*	*	*	*
	Dungeness	60	33	55·3	40·6	47·5	- 1·4	44	4	1	0·09	- 0·21	67·0	?	66	?
	Hastings (St. Leonards)	64	36	56·9	42·2	49·1	- 0·1	50	0	2	0·22	- 0·18	67·9	+20·7	67	+21
	Southampton	69	40	62·0	42·1	51·7	+ 1·2	68	0	0	—	- 0·44	47·3	+ 3·0	46	+ 3
	Portland Bill	61	37	55·9	44·0	49·6	- 0·2	53	0	1	0·07	?	*	*	*	*
	Shaftesbury Ⓜ	63	33	58·0	40·5	48·7	+ 0·5	53	4	0	—	- 0·52	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	68	37	62·9	42·7	52·2	+ 4·5	71	0	1	0·07	- 0·78	*	*	*	*
	Glasgow	68	40	60·5	42·1	50·8	+ 3·8	62	0	2	0·07	- 0·44	44·4	+10·4	42	+10
	Glenlee Ⓢ	70	35	62·7	37·5	49·2	+ 2·6	69	13	2	0·04	- 0·64	*	*	*	*
	Douglas (Isle of Man)	67	35	58·8	41·7	49·7	+ 2·5	55	1	1	0·09	- 0·43	65·5	+18·5	62	+17
7. ENGLAND, N.W.	Newton Reigny	68	34	60·1	39·0	48·9	+ 3·3	61	8	3	0·20	?	51·0	?	49	?
	Stonyhurst	66	38	57·6	41·3	49·0	+ 1·6	52	2	2	0·50	- 0·08	42·1	+ 2·6	40	+ 2
	Blackpool Ⓜ	63	34	58·5	39·8	48·6	+ 0·5	55	6	3	0·58	+ 0·14	50·4	+10·4	48	+10
	Manchester (Prestwich)	66	37	57·4	40·7	48·6	+ 1·1	52	4	1	0·12	- 0·37	38·8	?	37	?
	Liverpool Obsy. (Bidston)	65	38	57·9	43·6	50·3	+ 1·3	58	0	2	0·12	- 0·28	40·9	?	39	?
	Chester (Hawarden Bridge)	67	36	58·7	41·4	49·5	+ 0·1	55	2	1	0·03	?	*	*	*	*
	Llandudno Ⓜ	62	40	57·1	44·3	50·3	+ 1·1	58	0	1	0·22	- 0·19	51·9	+11·3	50	+11
	Holyhead	59	41	54·1	44·0	48·8	0·0	48	0	2	0·80	+ 0·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	28	61·4	37·4	48·7	+ 0·1	66	13	1	0·09	- 0·52	*	*	*	*
	Pembroke	62	38	55·9	44·7	50·0	+ 1·8	56	0	1	0·20	- 0·25	47·5	+ 1·0	46	+ 1
	Clifton	66	35	60·3	42·5	50·9	+ 1·9	62	0	0	—	- 0·52	*	*	*	*
	Bath	65	30	60·3	39·4	49·2	- 0·3	61	7	0	—	?	?	?	?	?
	Arlington (N. Devon)	66	31	58·7	38·3	47·9	+ 0·4	57	10	0	—	- 0·65	*	*	*	*
	Cullompton Ⓜ	67	31	61·4	40·3	50·2	+ 0·5	65	5	1	0·01	- 0·51	42·5	+ 1·6	42	+ 2
	Falmouth	61	39	55·1	44·3	49·4	- 0·3	52	0	2	0·87	+ 0·26	54·7	+ 7·5	54	+ 7
	Plymouth	65	40	56·4	42·3	48·9	- 1·8	48	0	4	0·47	- 0·03	43·9	- 1·0	43	- 1
9. IRELAND, N.	Malin Head	60	39	54·4	44·1	48·9	+ 1·2	48	0	2	0·05	?	*	*	*	*
	Londonderry	61	35	56·7	39·7	47·7	- 1·1	50	6	1	0·08	- 0·47	*	*	*	*
	Edenfel (Omagh)	70	30	63·1	37·1	49·3	+ 2·3	72	14	1	0·04	- 0·51	*	*	*	*
	Blacksod Point	63	37	59·3	40·7	49·4	+ 0·5	57	4	1	0·02	?	*	*	*	*
	Markree Castle	68	30	62·7	34·8	47·8	+ 0·3	71	20	0	—	- 0·57	62·2	+14·1	59	+12
	Armagh	69	32	60·5	38·2	48·7	+ 1·2	63	11	1	0·01	- 0·48	52·8	+15·6	50	+14
	Donaghadee	60	38	55·4	43·3	49·0	+ 1·3	49	0	0	—	- 0·47	*	*	*	*
10. IRELAND, S.	Dublin	64	36	59·4	42·2	50·3	+ 0·7	58	0	0	—	- 0·45	60·8	+17·6	58	+17
	Parsonstown	68	31	62·6	36·9	49·0	+ 0·4	70	14	0	—	- 0·50	63·7	+24·7	61	+24
	Kilkenny	68	30	60·9	39·0	49·3	+ 0·3	64	8	2	0·09	- 0·41	*	*	*	*
	Roche's Point	59	38	55·7	42·7	48·8	- 1·4	48	0	2	0·66	- 0·03	*	*	*	*
	Valencia	63	38	58·6	42·1	49·9	- 0·3	55	0	2	0·48	- 0·30	63·6	+20·4	62	+20
	Killarney	68	34	62·2	39·8	50·3	+ 0·9	67	6	1	0·17	- 0·57	*	*	*	*
	Foynes	69	34	62·5	38·4	49·7	+ 0·7	69	10	1	0·08	- 0·48	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	42	55·1	46·1	50·3	+ 0·1	58	0	2	0·64	+ 0·20	60·7	?	60	?
	Jersey	64	39	56·6	44·6	50·2	- 1·0	57	0	4	1·75	+ 1·30	53·4	+ 2·4	53	+ 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

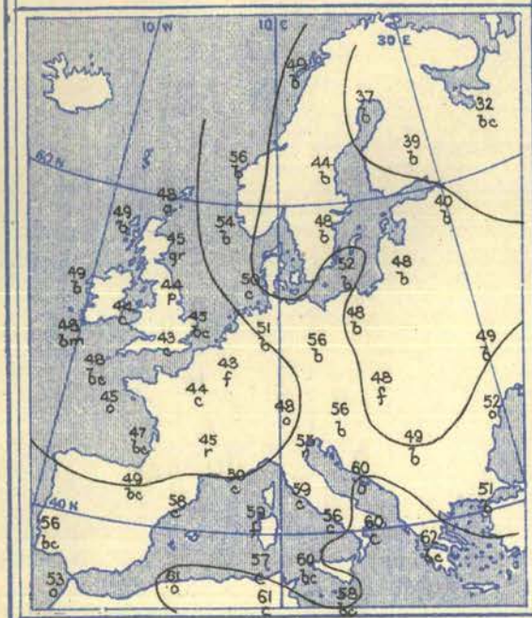
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

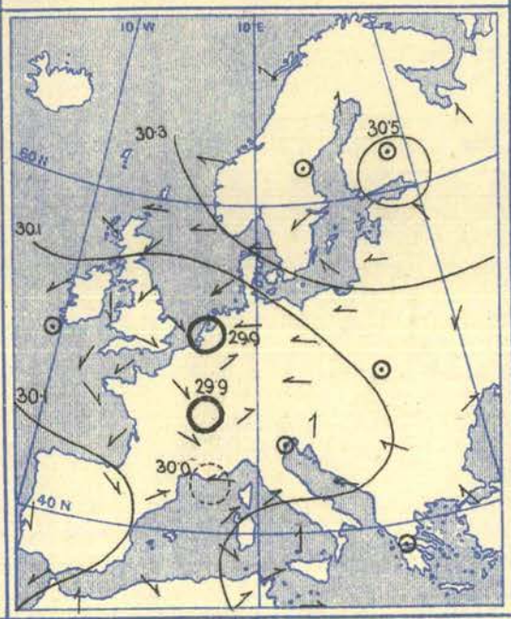
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 28th April.

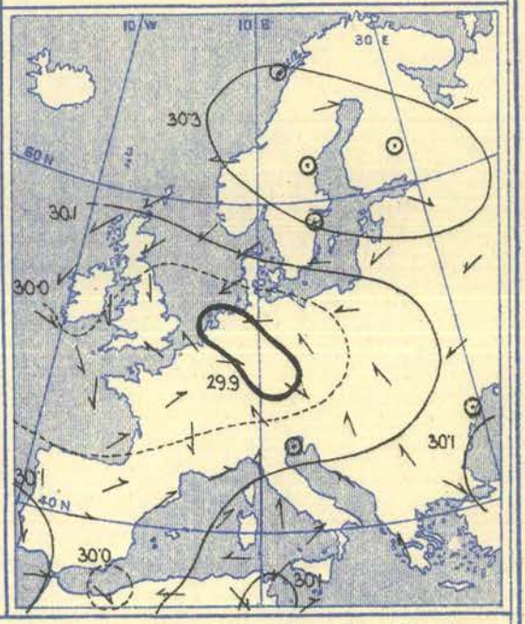
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in Ireland and the south of England, but cloudy and unsettled in most other parts of our Islands, with rain at several of our northern stations; rain and thunder reported at Jersey. Fair or fine over the greater part of the Continent, but cloudy over France, the Netherlands, south Germany and northern Italy, with rain at Lyons, Turin and Trieste. Rain falling later in the northern and extreme southern parts of Great Britain, as well as at many of the Continental stations—heavily at Jersey and Cagliari.

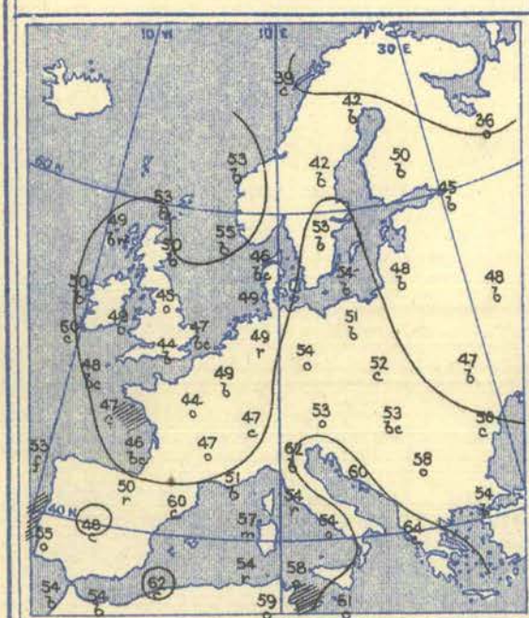
Temperature risen over the northern, eastern and central parts of Europe, fallen in most other localities. Morning readings highest, 65° at Sfax, 62° at Brindisi and Athens, and 61° at Algiers; above 55° at most of the Mediterranean, Adriatic, and Spanish coast stations, as well as in some parts of north Germany and Scandinavia. Lowest, 32° at Archangel, 37° at Haparanda, and 39° at Kuopio; below 45° in many parts of the United Kingdom. Daily maxima below 50° in several parts of Great Britain, but thermometer reaching 56° in London, and 59° at Loughborough; exceeding 60° at several of the Continental stations (including some in the north), and touching 70° or more in Austria and southern Italy.

Wind light to moderate from the Eastward over Denmark, Germany, and the south of Scandinavia, and from the North-Eastward or Northward over the greater part of the United Kingdom, but North-Westerly over the south-east of England, and also over France. Easterly or North-Easterly over the Spanish Peninsula; Southerly or South-Easterly in Italy; variable in Russia and Austria. Subsequently shifting to the North-Westward in Spain, and to the Westward or South-Westward over France; no important change occurring elsewhere.

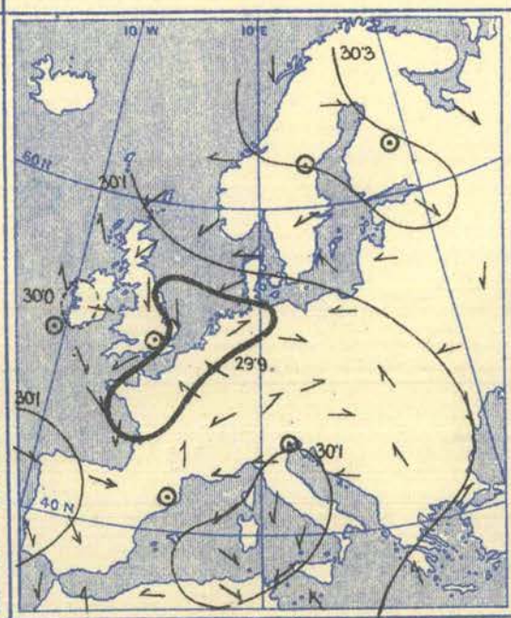
Barometer, highest 30·5 ins. and upwards in Finland; 30·2 ins. and upwards in an anticyclone covering the whole of northern Europe; 30·1 ins. and upwards in another system over the Spanish Peninsula. Lowest, 30·0 ins. to 29·9 ins. or rather less in a large shallow depression covering England, the Netherlands, Germany, and the north of France. No important change occurring during day.

Monday, 29th April.

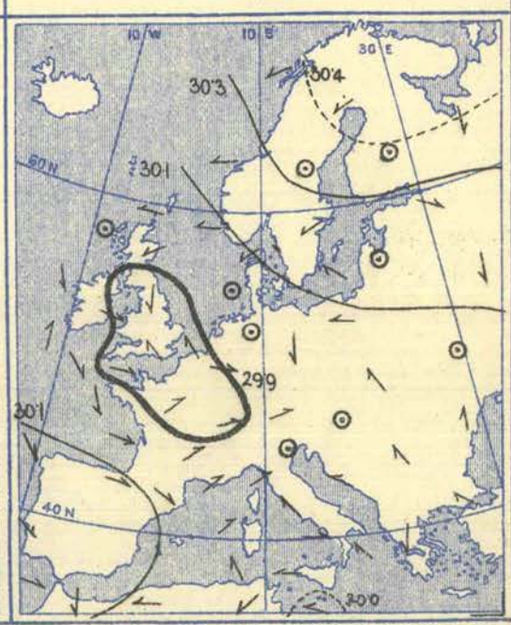
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the United Kingdom generally, but dull in the northern parts of Ireland and England. Fine in Russia and Scandinavia, and also over northern Italy and the extreme south of France; cloudy or dull in most other parts of the Continent, with rain at Fanö, Cuxhaven, Le Mans, Biarritz, and Rome. Rain falling later at several of our own western and northern stations, as well as in many parts of western, central and southern Europe, the amount at Boulogne being as much as 1·1 inch.

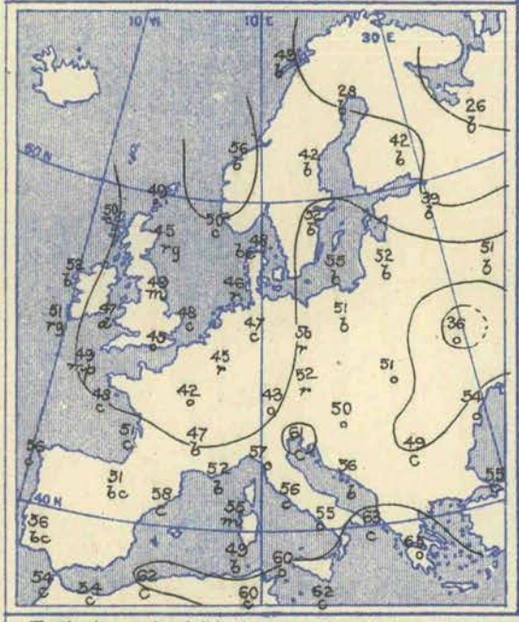
Temperature risen in most parts of the United Kingdom, fallen in Germany and Italy, changed very irregularly elsewhere. Morning readings highest, 66° at Sfax, 64° at Patras, and 62° at Trieste and Algiers; above 55° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest, 36° at Archangel, 39° at Bodö, and 40° at Ulcaborg; below 45° in some parts of England and France. Remaining below 50° all day in the north of England, but exceeding 55° in many other districts, and reaching 61° at Stornoway. Exceeding 60° also at many of the Scandinavian stations and over southern Europe generally, and reaching 75° at Brindisi.

Wind light and rather variable in our Islands, but chiefly Northerly (North-Easterly to North-Westerly). Light to moderate from the Eastward over northern Europe, but Westerly or South-Westerly in Germany, and North-Westerly over the Bay of Biscay and the Spanish Peninsula; Northerly in Italy; variable in the south of France. Faint cyclonic circulations appearing later over Great Britain and Ireland; scarcely any change occurring on the Continent.

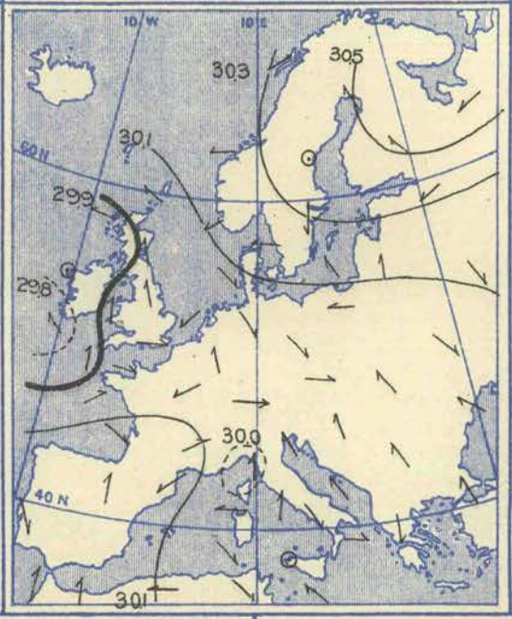
Barometer highest, 30·3 ins. and upwards in an anticyclone over Finland and the north of Scandinavia; 30·1 ins. and upwards in two other systems—one lying over Portugal and the west of Spain, and the other over Corsica, Sardinia and central Italy. Lowest, 29·9 ins. and less in a complex but very shallow depression over the southern part of the North Sea, the extreme south-east of England and the neighbouring parts of the Continent. Depression subsequently spreading north-westward over the United Kingdom and causing a general fall of the barometer in these Islands.

Tuesday, 30th April.

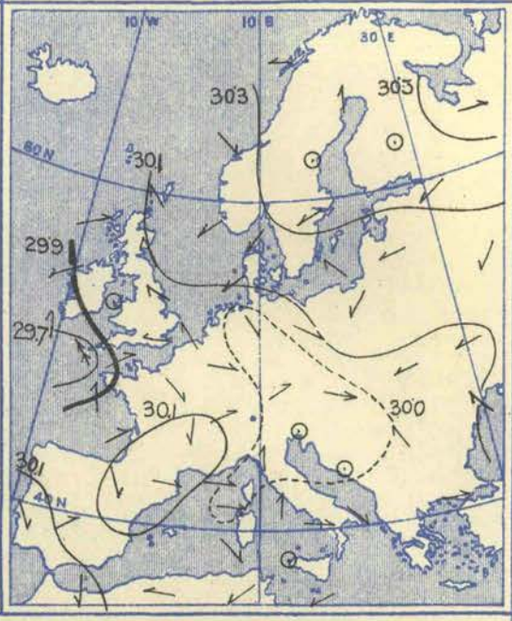
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the west and north of our Islands, with rain in the south of Ireland, and also at Aberdeen. Fine in other parts of the United Kingdom, and also over western and northern Europe generally; cloudy or dull in the central and most of the southern countries, with rain in some parts of Denmark, Germany, and northern Italy. Rain falling later at several of our own western stations, and also in the western parts of the Continent; no important change occurring elsewhere.

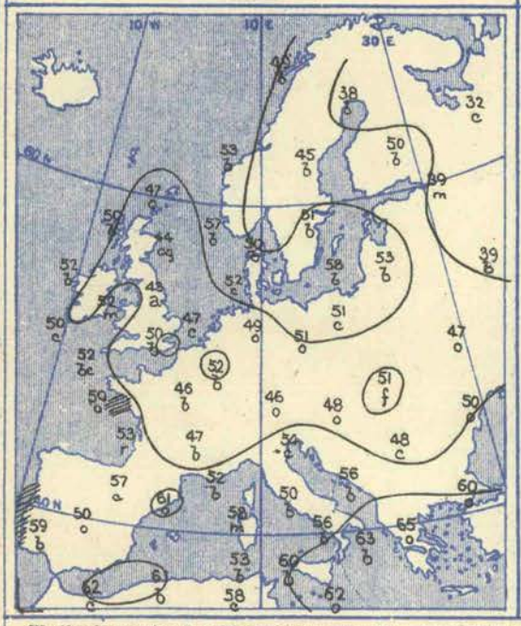
Temperature risen generally but fallen over Germany, Austria, and central France. Morning readings highest, 66° at Tunis, 65° at Patras, and 63° at Athens and Sfax; above 55° at most of the Mediterranean and Adriatic stations; touching 61° at Memel, and 56° at Christiansund. Lowest, 26° at Archangel, 38° at Haparanda, and 39° at St. Petersburg; lowest in our Islands, 45° in London, and at Oxford and Aberdeen. Rising during day to 60° and upwards in many parts of the United Kingdom, and to 64° in London; exceeding 65° over southern Europe, and reaching 70° at Madrid.

Wind light to moderate from the South-Eastward or Southward in all the more western and northern parts of the United Kingdom, and from the Eastward or North-Eastward over Scandinavia, Denmark, and northern Russia. Westerly over the south of England, and the greater part of France; North-Westerly on the Portuguese coasts. Variable over Germany, Austria, Italy, and south-eastern Europe generally. Subsequently increasing to a gale from the South-Eastward at the mouth of the English Channel; no important change occurring elsewhere.

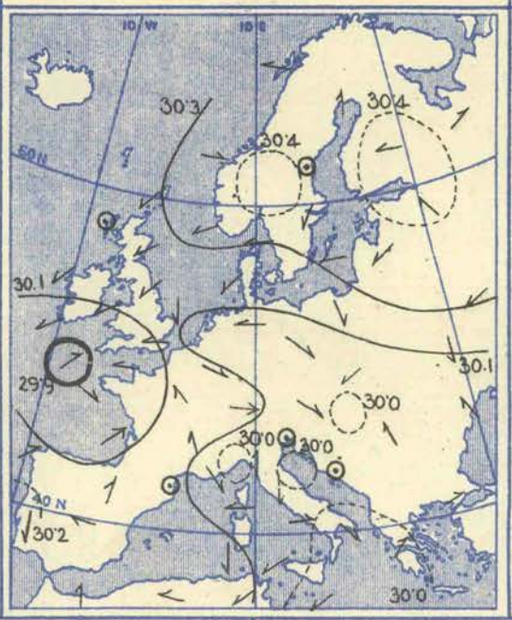
Barometer highest, 30·5 ins. and upwards to 30·1 ins. in an anticyclone lying over Scandinavia, and northern Russia; 30·1 ins. and upwards in another system over the Spanish Peninsula, and the south-western parts of France. Lowest, 29·8 ins. and less in a depression off the south-west of Ireland; 29·9 ins. and less in a shallow disturbance near Malta. Irish depression subsequently moving northwards, but new and rather deep disturbance appearing off the mouth of the English Channel.

Wednesday, 1st May.

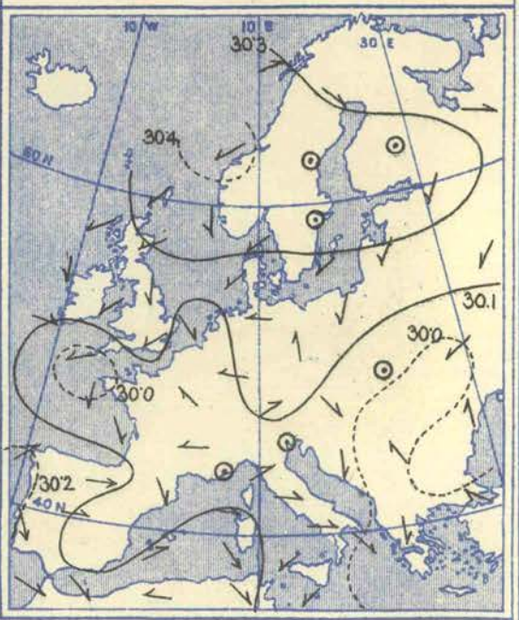
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and dry over western Europe generally, but foggy or misty in several places; with rain over the western departments of France, and drizzling showers at the mouth of the Tyne. Rain falling later at many of our eastern and southern stations, and also in some parts of southern Europe.

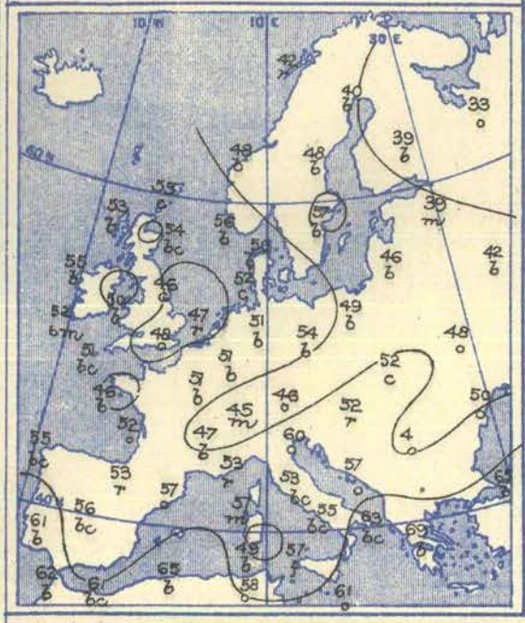
Temperature fallen over the eastern and central parts of Great Britain, and also over central Russia, risen somewhat in most other places. Morning readings highest, 65° at Athens and Patras, 63° at Brindisi, 62° at Malta, and 61° at Barcelona and Algiers, above 50° over central and southern Europe generally and also over the western and southern parts of Great Britain. Lowest, 32° at Archangel, 39° at Moscow, 38° at Haparanda, and 43° at several of our own north-eastern and eastern stations. Rising during day to 60° and upwards on our extreme north-western coasts and also in the south of Europe, and reaching 66° to 68° at several southern European stations later. Exceeding 70° over Algeria and reaching 81° at Nemours.

Wind light to moderate from Eastward or North-Eastward over our Islands, the North Sea, Denmark and the south of Scandinavia, but calm or light from South-Eastward over the central and southern parts of France, Easterly over Russia and Poland, chiefly Northerly over southern Europe. Little change over our Islands later, but wind becoming more Westerly over the Mediterranean.

Barometer highest 30·4 ins. and more in a large anticyclone lying over northern Europe. Lowest, 29·9 ins. and less in a small but rather deep depression off the mouth of the English Channel, and 30·0 ins. and less in several shallow areas lying over southern Europe. Depression off our south-west coasts filling up later, those over southern Europe dispersing.

Thursday, 2nd May.

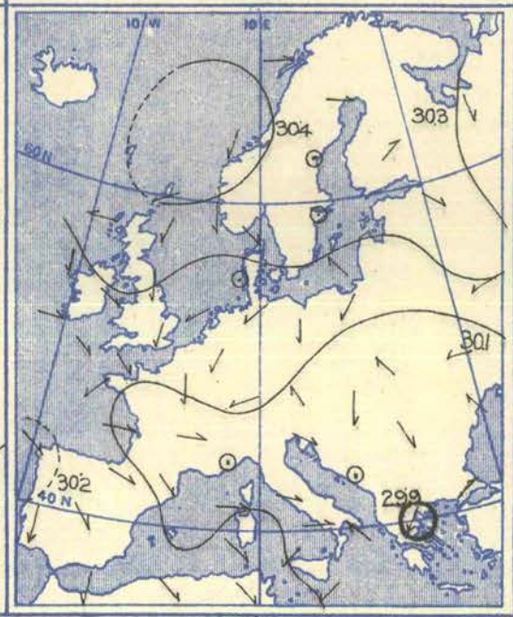
Temperature and Weather. 8 a.m.

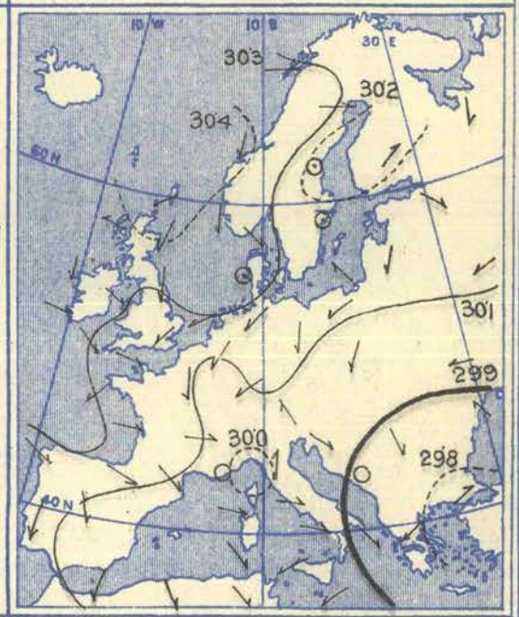


Weather in morning fine over north-western and northern Europe generally, but dull over the greater part of England, with rain at Yarmouth. Cloudy over Austria and the southern parts of Germany and France, with rain in several places; fine over Greece, Italy and the Spanish Peninsula. Slight rain falling later at several of the English stations; no important change occurring elsewhere.

Temperature changed rather irregularly but risen in most parts of the United Kingdom. Morning readings highest 69° at Patras, 66° at Athens and 65° at Algiers; slightly above 60° at several of the Mediterranean and Spanish coast stations and above 55° at some places in the south of Scandinavia. Lowest, 33° at Archangel, 39° at Kuopio and St. Petersburg and 42° at Moscow. Rising during day to 60° and upwards at several of our western and extreme northern stations, but remaining below 55° in many parts of England. Exceeding 60° over the greater part of the Continent, exceeding 65° in most of the southern countries and reaching 72° at Oporto and Lisbon.

Barometer and Wind. 8 a.m. and 6 p.m.



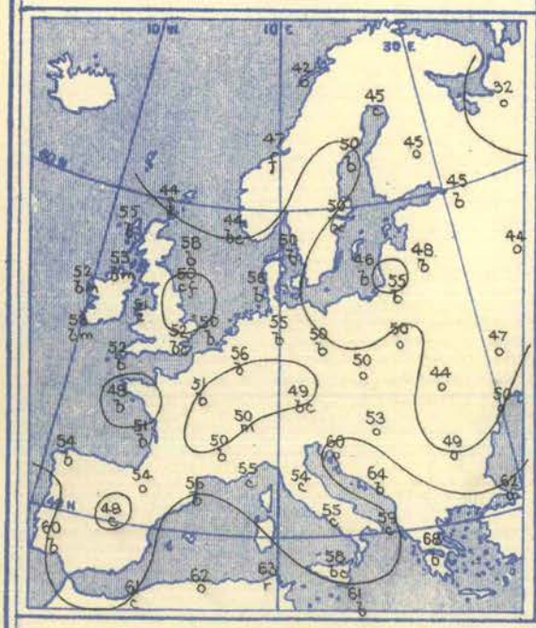


Wind light from between Northward and Eastward over north-western and northern Europe generally but drawing into the North-Westward over the southern countries, variable in the south of Russia. Westerly or South-Westerly breezes setting in later over Finland and the extreme north of Scandinavia; no important change occurring elsewhere.

Barometer highest 30·4 ins. and upwards over and to the westward of Norway, 30·2 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe and also in another system over Portugal. Lowest, 29·9 ins. and less in a small shallow depression over Greece. Northern anticyclone subsequently spreading south-westwards and becoming united with the system over Portugal. Depression over Greece spreading northwards and eastwards.

Friday, 3rd May.

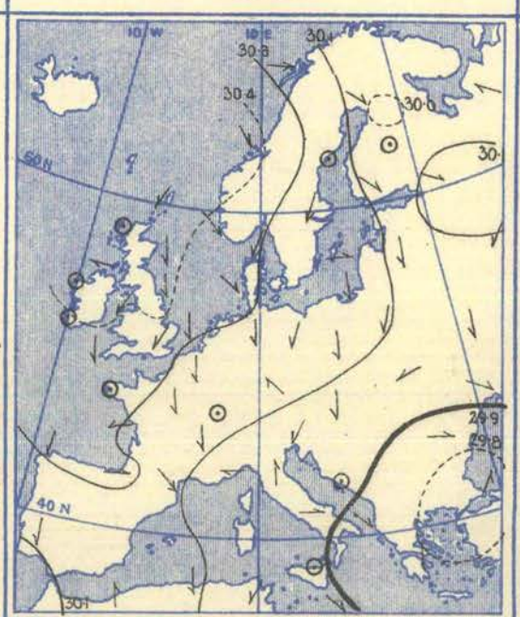
Temperature and Weather. 8 a.m.

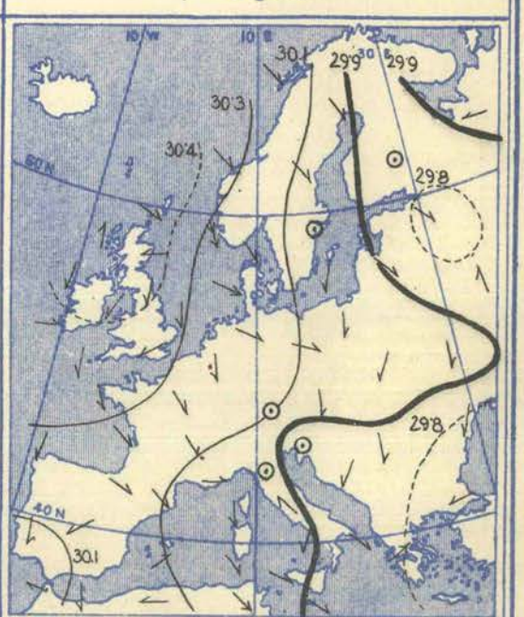


Weather in morning fine over our Islands and the Continent generally, but foggy at several of the North Sea stations, and dull in most parts of south-eastern Europe. Showers falling later in the north of England, with thunder and lightning in places; thunderstorms occurring also in some parts of central France and at Trieste.

Temperature risen in most countries but fallen in the west of Norway, and also in some parts of southern Europe. Morning readings highest, 68° at Patras, 66° at Athens, and 65° at Oporto; above 60° at several of the Mediterranean and Adriatic stations and above 55° on the east coast of Scotland. Lowest, 32° at Archangel, 40° at Uleaborg, and 42° at Bodö; lowest in our Islands 44° at Sumburgh Head. Remaining below 55° all day on the east coasts of England, but exceeding 60° in many other parts of the United Kingdom and reaching 69° in London. Reaching 70° or more in several parts of southern Europe, and touching 77° at Lisbon and San Fernando.

Barometer and Wind. 8 a.m. and 6 p.m.





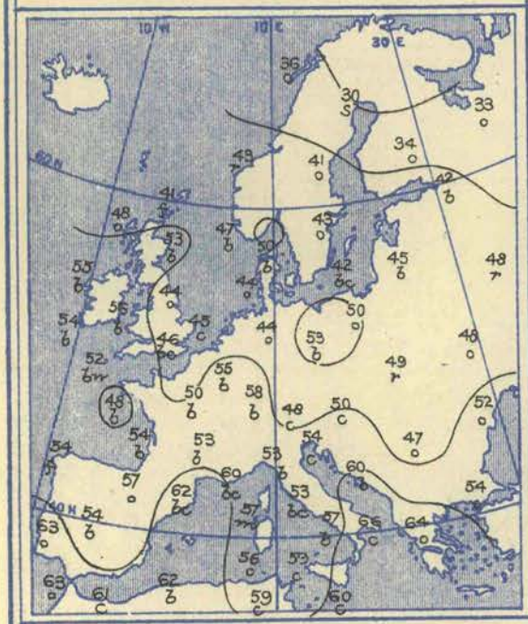
Wind light, from between North and East over our Islands and the neighbouring parts of th Continent; moderate to strong from the North-Eastward also over the Spanish Peninsula but Northerly or North-Westerly in the south of France and in Italy. Variable in Austria and South Germany; Northerly in most parts of northern Europe and strong in force in the south of Scandinavia. Subsequently becoming very variable in Ireland; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over Ireland, the northern parts of Great Britain, and the west of Norway; 30·1 ins. and upwards in an anticyclone covering the whole of western and central Europe and embracing also the Spanish Peninsula and Algeria. Lowest, 29·8 ins. and less in a large shallow depression over Turkey and Asia Minor; 30·0 ins. and less in a smaller system over Lapland Anticyclone moving slowly westwards later.

Saturday, 4th May.

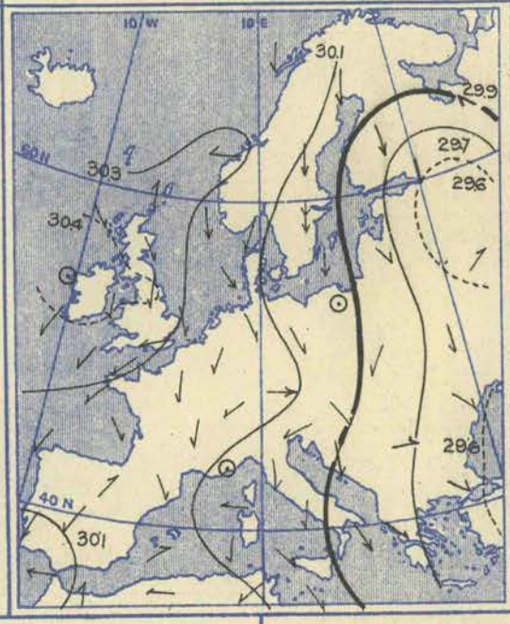
Temperature and Weather.

8 a.m.

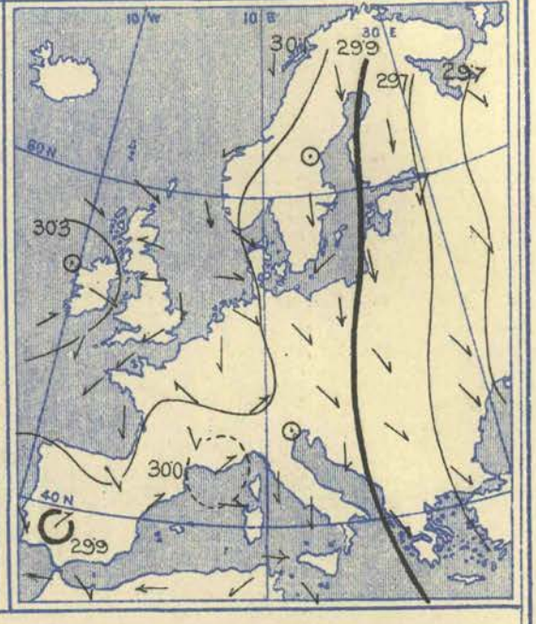


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over Europe as a whole, but dull in the eastern and central parts of England, as well as at many of the Scandinavian, Danish, and Russian stations; rain falling at Christiansund, and also at Moscow. Slight rain falling later on our own extreme north-west coasts as well as in some parts of Italy, and the south of France.

Temperature fallen in Scandinavia and Denmark, changed very irregularly elsewhere. Morning readings highest, 67° at Barcelona, 66° at Brindisi, and 64° at Athens and Patras; above 60° at many of the Mediterranean and Spanish coast stations, and above 55° at some places in the northern parts of our Islands. Lowest, 30° at Uleaborg, 32° at Haparanda, and 33° at Archangel; lowest in our Islands, 41° at Sumburgh Head, and 42° at Oxford. Rising during day to 60° and upwards in many parts of the United Kingdom, and reaching 68° at Parsonstown, and 73° at Leith; exceeding 70° in several parts of southern Europe, and reaching 77° at Cette, and Crosiette.

Wind Northerly (North-Easterly to North-Westerly) over practically the whole of Europe; light and moderate in force in most places, but strong in the south of Scandinavia, with a gale at Stockholm. Subsequently becoming very variable in Ireland; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over Ireland and the west and south of Scotland; 30·2 ins. and upwards in an anticyclone covering nearly the whole of western Europe. Lowest, 29·6 ins. and less in two depressions, one lying over central Russia, the other over the Black Sea, and the extreme south of Russia. Anticyclone moving steadily westwards during day; depressions over Russia amalgamating and forming one large shallow system covering nearly the whole of that country.

GENERAL NOTES.

During the early part of the week a large anticyclone of considerable intensity existed over northern Europe, while a smaller system of moderate height was reported over the Spanish Peninsula. In the western and central countries the weather was influenced by a shallow but complex depression lying over England, Germany, the Netherlands and the north of France. This disturbance occasioned a cyclonic circulation of light breezes in those countries and in all surrounding regions, with occasional falls of rain in most places; in our Islands, however, the showers were very local, and in many parts of England there were none at all. After the 29th the depression gradually dispersed, but on the 30th a new disturbance appeared off our south-west coasts and occasioned considerable falls of rain in that locality, with a brief South-Easterly gale at the mouth of the English Channel. Later on this system travelled slowly southwards and entirely filled up.

The anticyclone over northern Europe now began to move westwards and also to spread out in a southerly direction, so that by the morning of May 3rd it embraced nearly the whole of western and central Europe. Light breezes from the Northward (North-East to North-West) set in over all the western countries, with fair, dry weather and with a steady rise of temperature in most places; ground frosts were, however, common over central England, and on our east coasts, where fog or mist was very prevalent, the day temperatures were also low. At the close of the week the anticyclone was beginning to pass away to the Atlantic, and depressions were appearing over Russia, the weather showing a tendency to become less settled over Europe generally.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Feb. 9th, 1901	Torquay	—	—	—	—	—	—	—	—	—	—	—	17·5	+ 0·5	27	+ 2
,, ,, ,, 16th, ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	22·2	+ 7·2	34	+ 11
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	33·0	?	49	?
,, ,, ,, 23rd, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	13·1	?	19	?
,, ,, Mar. 2nd, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	19·9	?	27	?

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	62·6	+25·0	57	+19	BRIGHTON	59·8	+14·8	59	+14
STRATHPEFFER SPA	50·4	+14·1	47	+13	WORTHING	60·0	?	59	?
EDINBURGH					BOGNOR	49·6*	?	49*	?
MORPETH	44·3	?	42	?	WATERGATE (Emsworth)	49·3	?	48	?
NEWCASTLE-ON-TYNE	35·6	?	34	?	WESTBOURNE (Emsworth)	54·7*	+ 8·0	54*	+ 8
OSWALDKIRK (Yorkshire)	34·7	- 1·2	33	- 1	VENTNOR HOSPITAL	58·3	+10·6	57	+11
LOWESTOFT	43·2	?	42	?	SOUTHPORT	47·7	?	45	?
HOLLESLEY BAY		?		?	RHYL	*	?	*	?
SHEFFIELD	23·3	?	22	?	COLWYN BAY		?		?
WORKSOP	30·4	- 4·3	28	- 5	ABERDOVEY	48·2*	?	46*	?
THURCASTON (Leicestershire)	25·3	-11·3	24	-12	TENBY	49·9	+ 2·9	48	+ 2
MARGATE	44·1	+ 3·7	43	+ 4	NEWQUAY	57·5	+12·5	56	+11
BROADSTAIRS	40·0	?	39	?	TORQUAY	57·7	+11·7	57	+12
EASTBOURNE	69·8	+23·8	68	+23	GUERNSEY	42·3*	- 9·7	42*	-10

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W ; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 19.] *Third Series.* WEEK ENDING SATURDAY, MAY 11TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 110.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	34	53·1	40·9	46·6	0 (average)	37	− 1	3	− 7	296	+19	553	+10
	1. SCOTLAND, EAST	63	33	52·6	39·6	45·7	1 below	36	−12	7	− 1	295	−63	644	+47
	2. ENGLAND, N.E.	64	33	53·1	41·0	46·7	1 below	37	− 9	3	− 2	309	−54	511	+12
	3. ENGLAND, EAST	63	35	54·7	40·1	47·0	2 below	43	−17	5	0	357	−100	556	+11
	4. MIDLAND COUNTIES	68	31	56·6	39·6	47·6	2 below	49	−12	7	+ 1	398	− 90	580	+30
	5. ENGLAND, SOUTH	63	31	55·0	41·2	47·7	3 below	43	−23	2	0	394	−129	445	+39
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	34	54·5	40·8	47·2	1 below	41	−12	3	− 2	356	− 37	463	+36
	7. ENGLAND, N.W.	68	33	54·7	41·8	47·9	1 below	42	−13	1	− 3	357	− 53	452	+48
	8. ENGLAND, S.W.	67	32	56·0	42·0	48·6	2 below	46	−12	0	− 2	438*	− 85	369	+53
	9. IRELAND, NORTH	62	33	54·5	41·0	47·4	1 below	42	−11	3	− 1	374	− 93	374	+16
	10. IRELAND, SOUTH	65	35	56·2	41·4	48·3	2 below	47	−14	2	0	479	−115	325	+64
	—CHANNEL ISLANDS	59	43	54·6	45·7	49·9	2 below	55	−13	0	0	590	− 67	160	+33

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 110.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	1 more	91	+ 7	14·8	− 3·0	26	−11	24	−10	409	+31	28	+ 2
	1. SCOTLAND, EAST	6	11	6 more	76	+ 7	9·6	− 0·5	25	−14	23	−13	411*	−10	28	− 1
	2. ENGLAND, N.E.	4	4	0 (average)	76	+10	7·4	− 0·4	28	−11	25	−11	437	+31	30	+ 2
	3. ENGLAND, EAST	5	7	3 more	75	+ 7	8·0	+ 0·4	35	−16	33	−15	479*	−33	30	− 2
	4. MIDLAND COUNTIES	4	6	1 more	70	+ 6	9·5	+ 0·7	30	−11	28	−10	403	−15	28	− 1
	5. ENGLAND, SOUTH	4	6	2 more	66	+ 2	9·1	− 0·1	36	−14	34	−13	491	−17	33	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	6	0 (average)	75	− 1	15·2	− 3·1	35	− 7	32	− 8	481	+50	33	+ 3
	7. ENGLAND, N.W.	5	4	1 less	73	+ 5	9·4	− 1·2	46	+ 5	42	+ 5	499*	+57	33	+ 4
	8. ENGLAND, S.W.	5	5	0 (average)	70	− 3	13·6	− 0·2	53	+ 6	50	+ 5	545	+34	37	+ 2
	9. IRELAND, NORTH	5	10	4 more	85	+ 4	12·1	+ 0·6	39	− 1	36	− 2	472	+49	32	+ 3
	10. IRELAND, SOUTH	5	9	3 more	74	− 2	13·1	− 1·2	40	− 4	38	− 3	518	+36	35	+ 2
	— CHANNEL ISLANDS	4	6	2 more	86	+10	13·0	+ 1·9	53	− 1	51	− 2	535	−76	35	−

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was of an unsettled and variable character. Rain fell frequently in all parts of the Kingdom, and the fall was accompanied in many places by thunder, lightning, and hail. Fine, bright intervals were very common, especially in most of the western and north-western districts, but in the east and north-east the sky was generally very cloudy or dull.

Temperature was rather below the mean except in Scotland N. The highest of the maxima were recorded either at the commencement or towards the end of the period, when they ranged from 68° in England N.W. and the Midland Counties, and 67° in England S.W., to 62° in Ireland N., and 59° in the Channel Islands. The lowest of the minima were registered on rather irregular dates, and varied from 31° in the Midland Counties and England S. (at Cirencester and Swarraton), and 32° in England S.W. to 35° in England E. and Ireland S., and to 43° in the Channel Islands.

Rainfall was a little less than the mean in England N.W., and only just equal to it in England N.E. and S.W. and in Scotland W. In all other districts there was an excess, that in Scotland E. being large.

Bright Sunshine exceeded the mean in England N.W. and S.W., but was deficient in all other districts. The percentage of the possible duration ranged from 51 in the Channel Islands, and 50 in England S.W. to 25 in England N.E., 24 in Scotland N. and 23 in Scotland E.

Barometer and Wind.—Soon after the commencement of the week a depression appeared off our north-western coasts, and moderate breezes from between South-West and West were prevalent throughout the Kingdom. By the morning of the 7th this system appears to have moved south-eastwards and developed into a well-formed disturbance having its centre over Cumberland. The winds in the extreme north had consequently shifted to the Eastward, and those in the north-west to the Northward. During the following day the depression moved slowly south-eastwards, and after remaining almost stationary over our south-east coasts on Thursday and Friday, and causing a cold Northerly current of wind over the whole country, it finally moved eastwards to Germany. By the end of the week another depression had appeared off the north of Scotland, and the Northerly wind over Great Britain had given place to light variable airs.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 109 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	54	39	50·6	42·1	46·1	+ 2·1	29	0	4	0·23	- 0·19	*	*	*	*
	Stornoway	58	38	54·3	40·6	47·0	+ 1·1	41	4	4	0·57	0·00	61·2	+20·2	55	+18
	Wick	56	39	52·1	41·0	46·2	+ 0·1	34	3	5	0·88	+ 0·48	*	*	*	*
	Lairg ℌ	58	34	54·4	39·0	46·2	+ 1·1	42	8	4	0·77	+ 0·27	*	*	*	*
	Glencarron ℌ	64	37	53·5	40·1	46·4	+ 0·1	39	5	6	0·79	- 0·25	*	*	*	*
	Fort Augustus ℌ	59	39	53·3	41·6	47·1	- 0·6	37	1	6	0·79	+ 0·32	16·3	-12·9	15	-12
	Fort William ℌ	56	40	53·5	42·2	47·5	- 0·8	39	0	4	0·49	- 0·31	20·3	-17·7	18	-17
1. SCOTLAND, E.	Nairn	59	37	53·1	40·1	46·2	- 1·3	37	5	5	0·80	+ 0·45	*	*	*	*
	Aberdeen	55	36	49·6	41·0	45·0	- 1·7	25	3	7	1·34	+ 0·88	22·6	-18·9	21	-17
	Braemar ℌ	56	35	49·7	37·7	43·3	- 0·9	27	12	6	1·63	+ 1·13	*	*	*	*
	Ochtertyre ℌ	62	33	56·1	39·0	47·0	- 1·1	48	8	5	0·80	+ 0·27	*	*	*	*
	Leith	63	41	54·1	42·3	47·9	- 0·5	41	0	6	0·50	+ 0·13	*	*	*	*
	Marchmont ℌ	63	34	53·1	37·4	44·8	- 1·6	39	13	6	1·25	+ 0·72	28·0	-11·5	26	-10
2. ENGLAND, N.E	Alnwick Castle	59	36	52·6	40·8	46·4	0·0	36	3	5	0·69	+ 0·22	*	*	*	*
	Durham	64	38	53·8	40·2	46·6	- 0·8	40	5	6	0·54	+ 0·09	29·7	- 6·8	27	+ 8
	Shields	53	41	51·0	42·0	46·2	- 0·8	29	0	5	0·35	- 0·02	*	*	*	*
	Scarborough ℳ	55	37	52·7	41·6	46·8	- 0·9	35	1	2	0·29	- 0·15	26·5	?	25	?
	Spurn Head	55	41	51·9	42·7	47·0	- 1·0	35	0	2	0·23	- 0·13	*	*	*	*
	Fulbeck (Lincolnshire)	64	33	56·5	38·7	47·1	- 2·1	50	9	2	0·39	- 0·02	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	62	36	56·2	39·1	47·1	- 2·1	48	8	5	0·45	+ 0·05	25·5	-18·9	24	-17
	Yarmouth	53	38	51·1	42·7	46·7	- 1·6	33	0	5	0·88	+ 0·48	*	*	*	*
	Geldeston	60	36	55·2	39·8	47·0	- 2·0	44	6	5	0·74	+ 0·36	38·7	- 8·8	37	- 7
	Cambridge	63	35	58·0	38·8	47·8	- 2·5	54	9	4	0·54	+ 0·16	31·2	-12·8	29	-12
	Felixstowe	58	40	53·3	42·0	47·3	- 1·0	37	0	5	0·49	?	41·0†	?†	39†	?†
	Rothamsted	58	36	54·3	38·2	45·8	- 3·3	43	11	4	1·19	+ 0·74	18·0	-23·6	17	-23
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	32	58·6	38·3	47·8	- 1·7	56	10	4	0·35	- 0·07	*	*	*	*
	Loughborough	66	32	58·7	40·3	49·0	- 1·1	56	5	2	0·23	- 0·22	*	*	*	*
	Colly Weston (Stamford)	63	34	56·6	38·6	47·1	- 2·4	50	10	4	0·60	?	*	*	*	*
	Cheadle ℳ	65	36	55·8	39·8	47·3	- 0·6	46	6	3	0·39	- 0·11	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	64	38	56·0	40·8	47·9	- 0·9	46	3	4	0·62	+ 0·12	31·5	?	30	?
	Churchstoke ℳ	65	36	55·1	38·4	46·3	- 1·6	45	10	4	0·59	+ 0·13	35·3	- 6·8	33	- 6
	Hereford (Belmont) ℳ	65	35	57·6	41·1	48·9	- 1·2	52	3	6	0·49	+ 0·07	*	*	*	*
	Cirencester	62	31	54·9	38·9	46·4	- 2·5	44	9	4	0·79	+ 0·32	29·6	-14·8	28	-13
	Oxford	61	32	55·9	40·6	47·8	- 2·7	46	4	4	1·02	+ 0·63	29·7	-12·3	28	-12
5. ENGLAND, S.	London	61	39	56·0	41·7	48·4	- 3·3	46	1	4	0·61	+ 0·23	18·3†	-20·4†	17†	-19†
	Swarraton (Alresford) ℳ	61	31	55·2	37·6	45·9	- 2·9	46	12	4	0·48	+ 0·04	*	*	*	*
	Dungeness	57	35	53·4	42·3	47·5	- 2·6	39	0	4	0·55	+ 0·25	47·5	?	45	?
	Hastings (St. Leonards)	59	39	53·1	42·5	47·5	- 2·9	39	0	6	0·75	+ 0·37	39·3	-11·2	37	-11
	Southampton	63	35	58·0	41·3	49·2	- 2·4	53	2	3	0·56	+ 0·14	34·4	-12·6	33	-11
	Portland Bill	56	42	52·7	43·7	47·9	- 2·8	41	0	5	0·63	?	*	*	*	*
	Shaftesbury ℳ	63	36	56·5	40·1	47·8	- 1·5	49	5	5	0·93	+ 0·43	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	58	35	54·3	40·8	47·2	- 1·5	41	3	7	0·84	0·00	*	*	*	*
	Glasgow	57	38	53·2	42·3	47·4	- 0·7	38	0	5	0·55	+ 0·02	24·8	-10·8	23	-10
	Glenlee ℌ	63	34	55·6	39·8	47·2	- 0·4	46	6	4	0·64	- 0·04	*	*	*	*
	Douglas (Isle of Man)	61	35	55·0	40·1	47·1	- 1·3	44	5	3	0·42	- 0·09	44·6	- 4·2	41	- 5
7. ENGLAND, N.W.	Newton Reigny	65	34	55·7	39·4	47·1	+ 0·5	47	7	4	0·23	?	47·9	?	44	?
	Stonyhurst	62	39	54·0	41·5	47·4	- 1·1	40	1	5	0·57	- 0·02	47·4	+ 5·6	44	+ 5
	Blackpool ℳ	59	33	55·6	40·6	47·7	- 1·5	46	4	5	0·25	- 0·20	49·3	+ 7·0	46	+ 7
	Manchester (Prestwich)	68	38	55·8	41·0	48·0	- 0·5	46	3	5	0·45	- 0·05	35·4	?	33	?
	Liverpool Obsy. (Bidston)	61	38	53·9	43·1	48·2	- 1·7	43	0	4	0·51	+ 0·10	41·7	?	39	?
	Chester (Hawarden Bridge)	64	38	55·4	42·7	48·7	- 1·8	47	0	7	0·52	?	*	*	*	*
	Llandudno ℳ	65	39	54·6	43·1	48·5	- 1·4	46	0	5	0·33	- 0·09	45·0	+ 2·0	42	+ 2
	Holyhead	59	39	52·3	42·7	47·2	- 2·5	36	0	5	0·51	+ 0·09	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	33	58·3	39·3	48·2	- 1·5	55	8	6	0·42	- 0·19	*	*	*	*
	Pembroke	55	42	52·4	44·1	48·0	- 1·1	42	0	3	0·31	- 0·13	58·7	+10·2	55	+ 9
	Clifton	65	41	?	42·7	?	?	?	?	6	0·75	+ 0·33	*	*	*	*
	Bath	65	32	57·0	40·9	48·5	- 2·0	50	3	4	0·79	?	*	*	*	*
	Arlington (N. Devon)	63	38	55·3	40·3	47·4	- 1·3	45	5	6	0·59	- 0·05	*	*	*	*
	Cullompton ℳ	67	33	59·1	40·7	49·4	- 1·3	57	4	4	0·29	- 0·21	33·9	- 9·1	32	- 9
	Falmouth	60	41	54·6	44·5	49·3	- 1·4	51	0	5	0·65	+ 0·06	62·8	+12·8	60	+11
	Plymouth	58	40	55·5	43·6	49·2	- 2·5	50	0	5	0·49	+ 0·02	58·2	+11·2	56	+11
9. IRELAND, N.	Malin Head	60	42	53·0	43·3	47·9	- 0·6	41	0	4	0·80	?	*	*	*	*
	Londonderry	62	39	58·5	42·7	50·1	+ 0·3	57	0	3	0·99	+ 0·43	*	*	*	*
	Edenfel (Omagh)	62	33	55·7	38·9	46·8	- 1·2	47	9	5	1·05	+ 0·50	*	*	*	*
	Blacksod Point	55	40	53·0	42·0	47·2	- 2·5	36	0	6	0·82	?	*	*	*	*
	Markree Castle	56	37	54·0	40·6	46·9	- 1·6	41	4	6	1·08	+ 0·51	41·6	+ 1·0	39	+ 1
	Armagh	59	36	55·5	38·5	46·5	- 2·0	46	10	5	1·00	+ 0·52	35·9	- 2·6	33	- 4
	Donaghadee	56	36	51·9	41·1	46·2	- 2·5	33	3	5	0·92	+ 0·44	*	*	*	*
10. IRELAND, S.	Dublin	62	40	56·7	41·4	48·6	- 2·1	49	2	4	0·51	+ 0·06	35·7	-10·2	33	-10
	Parsonstown	60	35	56·1	40·1	47·6	- 1·9	47	5	5	0·98	+ 0·47	41·6	+ 1·1	39	+ 1
	Kilkenny	59	37	55·6	40·0	47·3	- 2·6	46	6	6	1·03	+ 0·54	*	*	*	*
	Roche's Point	60	40	55·3	43·7	49·2	- 1·9	50	0	5	0·75	+ 0·07	*	*	*	*
	Valencia	55	42	53·6	43·4	48·2	- 2·8	43	0	4	1·10	+ 0·40	43·1	- 2·7	41	- 2
	Killarney	65	35	?58·7	40·1	?48·8	?- 1·6	?56	?5	6	0·91	+ 0·21	*	*	*	*
	Foynes	63	36	57·2	40·9	48·6	- 1·4	51	3	5	0·95	+ 0·41	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	45	54·0	46·4	50·0	- 1·4	56	0	3	0·49	+ 0·09	53·3	?	51	?
	Jersey	59	43	55·1	45·0	49·8	- 2·2	55	0	4	0·66	+ 0·23	52·9	- 0·7	51	- 1

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

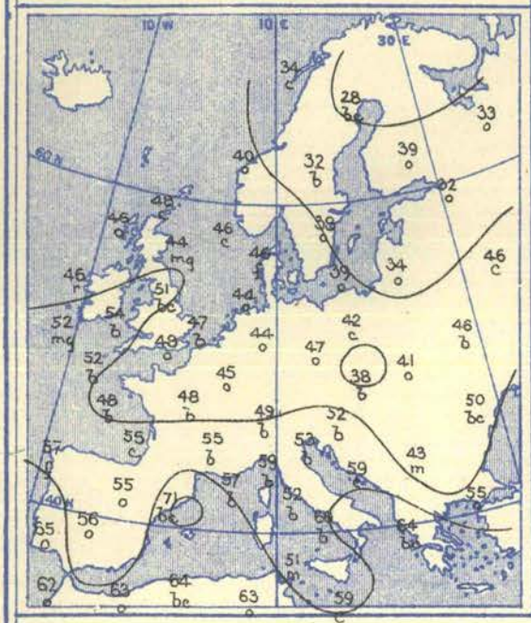
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 5th May.

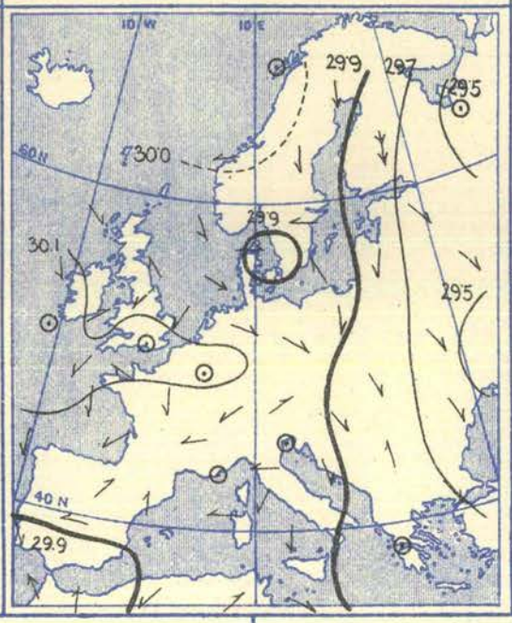
Temperature and Weather.

8 a.m.

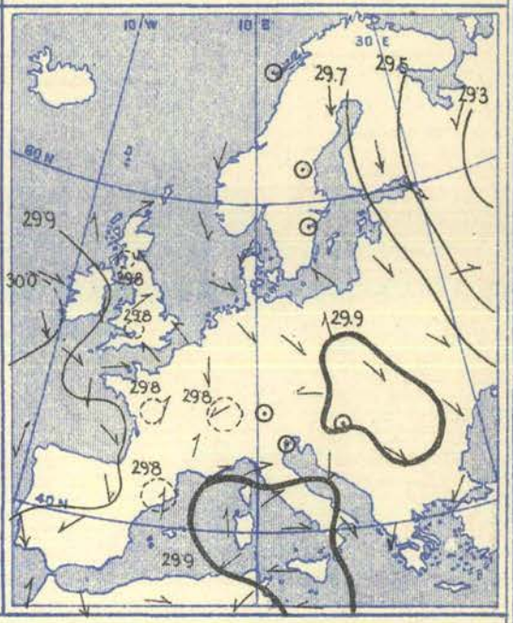


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning much more cloudy as a whole than of late, and rain falling at several of our western stations; remaining clear, however, in several localities. Rain general later over all the northern and western parts of the Kingdom and in the north and west of France. Some of the measurements in latter regions large. Slight falls in some other parts of Continental Europe widely separated.

Temperature changing very irregularly, but, as a whole falling. Morning readings highest, 71° at Barcelona and exceeding 60° at many of the Mediterranean stations; above 50° in the south of France, the north of Italy, and on our own extreme western coasts, 51° at Shields. Lowest, 28° at Haparanda, 32° at St. Petersburg, 38° at Moscow and Lemberg, 40° at Riga. Rising later to between 66° and 60° over several parts of England, to 71° at Lyons, 73° at Rochefort and Algiers, 77° at Oporto.

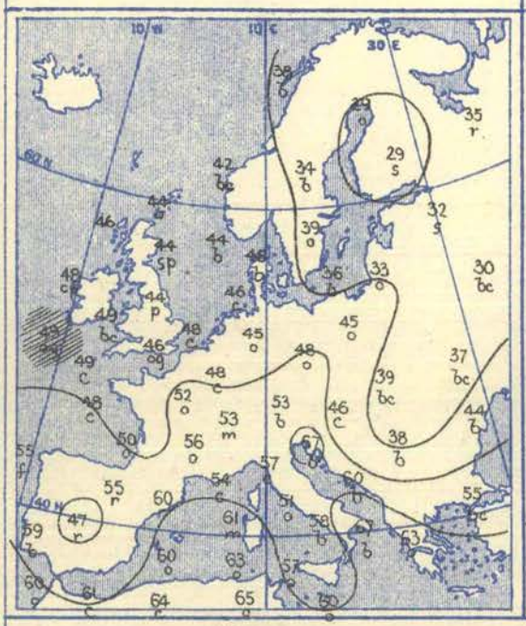
Wind very variable indeed in direction; strong over northern Europe, light or very light elsewhere but perhaps Northerly to Easterly winds preponderating. Many local variations over England during the day, Westerly to Northerly on our western coasts and strong Northerly over Finland.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the greater part of the British Islands, France and Germany, and exceeding 30·0 ins. in the north-west of Norway. Lowest, (1) 29·5 ins. and less over the north of Russia, and 29·4 ins. and less in a separate area over the south of Russia; (2) 29·9 ins. and less over the southern parts of the Spanish Peninsula. Falling all day over the British Islands; A large ill-defined disturbance appearing in the extreme north-west and several shallow minor disturbances in various parts of our Islands and France.

Monday, 6th May.

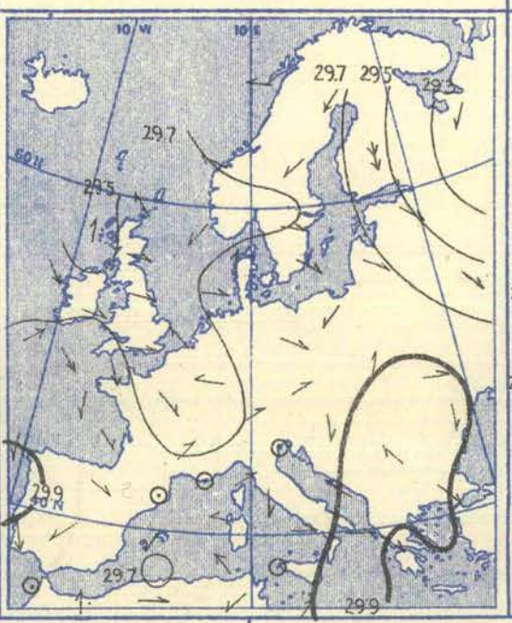
Temperature and Weather.

8 a.m.

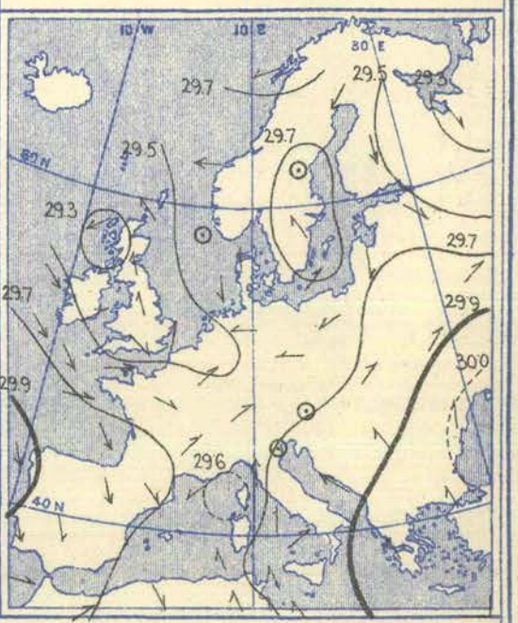


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over south-eastern and central Europe, dull in the north of Russia, with rain and snow in places, less settled over Western Europe and the British Islands than for some considerable time past. Some rain later in almost all parts of our Islands, and still larger quantities over France and southern Europe, ·0·8 at Perpignan and Turin, 1·2 ins. at Cagliari. Hail at Parsonstown, thunder at Nairn

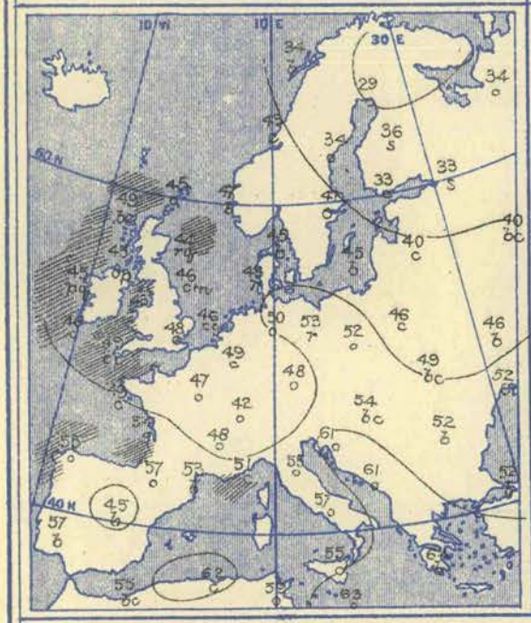
Temperature changing very variably. Morning readings highest, 65° at La Calle and above 60° at many stations on the southern side of the Mediterranean, 58° at Bilbao, but below 50° all over the British Islands. Lowest, 29° at Uleaborg and Kuopio, 30° at Haparanda and Moscow, and below 40° over nearly the whole of Russia and Sweden. Not exceeding 55° later over the major part of our Islands, but exceeding 60° over Germany and touching 66° at Frankfort, Munich, Perpignan and Lisbon, 68° at Leghorn, 75° at Pesaro, 81° at Nemours, and still higher over the central parts of Algeria.

Wind exceedingly variable, very light over the southern parts of Europe, stronger over the northern countries, and very strong over Finland. Northerly in the latter region, but Southerly and South-Easterly (light) over Scotland and the North Sea, North-Westerly on most of our western coasts, and Northerly to North-Westerly over the Bay of Biscay. Shifting to East in the north of Scotland later, and blowing strongly from the Eastward over some parts of the Mediterranean.

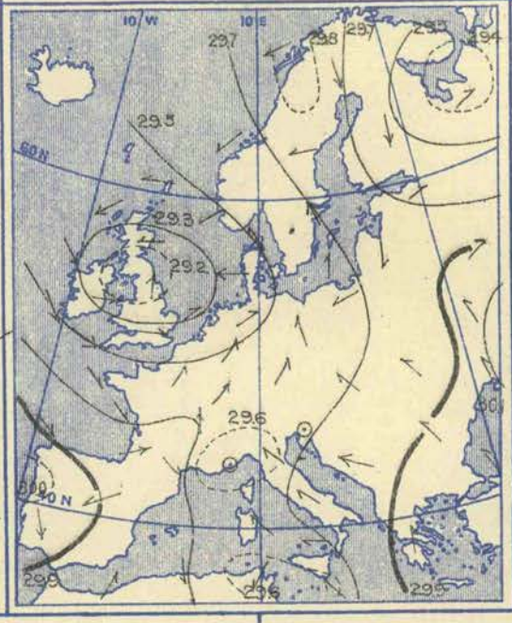
Barometer.—Highest, 29·9 ins. and more over the north-west of Spain, and also over the Balkan Peninsula. Lowest, 29·5 ins. and less off the west of Scotland, and 29·2 ins. over the north of Russia. A depression moving slowly later from North-West over the west of Scotland, that over northern Europe filling up. Barometer rising over south-eastern Europe and exceeding 30·0 ins. over the south of Russia. A new depression approaching Sfax from the southward.

Tuesday, 7th May.

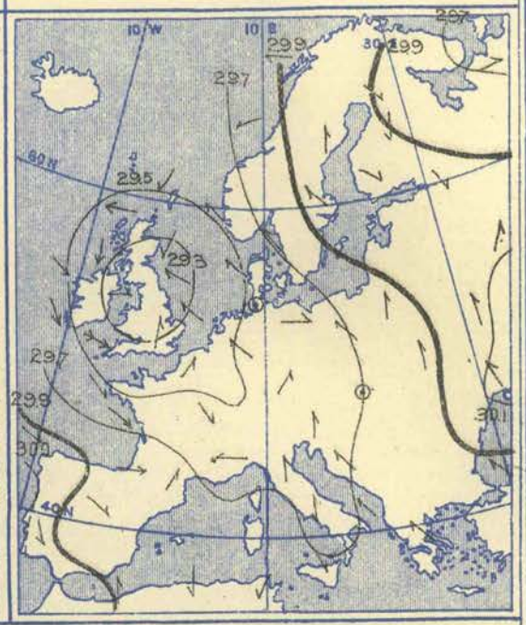
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the southern half of Spain on the one hand, and over Scandinavia on the other, over the southern half of Russia, and also on our own extreme north-west coasts; very unsettled over England, rather so over the greater part of France, central Europe, and the Mediterranean. Rain later over western Europe, but not over the eastern countries, thunder and lightning on our eastern coast and at Cuxhaven.

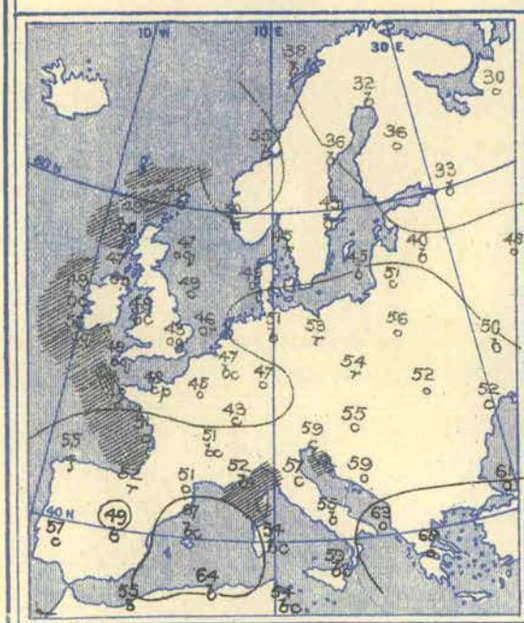
Temperature in morning highest, 64° to 60° at several stations on the southern side of the Mediterranean, 55° at Corunna, above 50° over the west of France, and central Europe, lower generally elsewhere. Lowest, 29° at Haparanda, 34° at Archangel, Bodö, and Hernösand, 44° in the east of Scotland. Rising later to 50° and more over Ireland and England, 55° at Jersey, 59° at Loughborough, to 62° at Paris, 66° at Berlin, 70° at Perpignan, to 73° at Palermo, and 79° at Sfax.

Wind very variable, mainly South-Easterly over the south of Russia, and North-Westerly over the Bay of Biscay and in Ireland. Cyclonic circulation observed round three centres—one over the White Sea, another over the Irish Sea and north of England, and a third off the south coast of France. Wind veering to Northward in Ireland later, and becoming very strong from North-West over Spain.

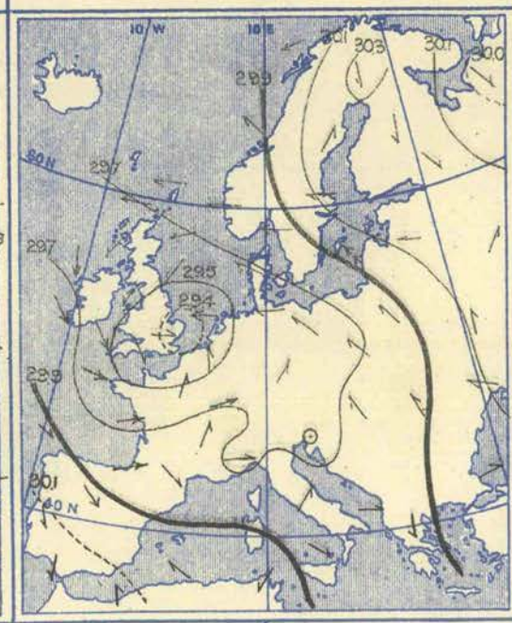
Barometer highest, (1) 30·0 ins. to 29·8 ins. over the Spanish Peninsula, (2) 29·8 ins. and more in the north of Norway. Lowest, (1) 29·4 ins. and less in a depression in the extreme north of Russia; (2) 29·2 ins. and less in another over the Irish Sea and north-west of England; (3) 29·6 ins. and less over the north-eastern parts of the Mediterranean. The British depression moving south-eastwards later very slowly, but fresh shallow systems appearing over central Europe.

Wednesday, 8th May.

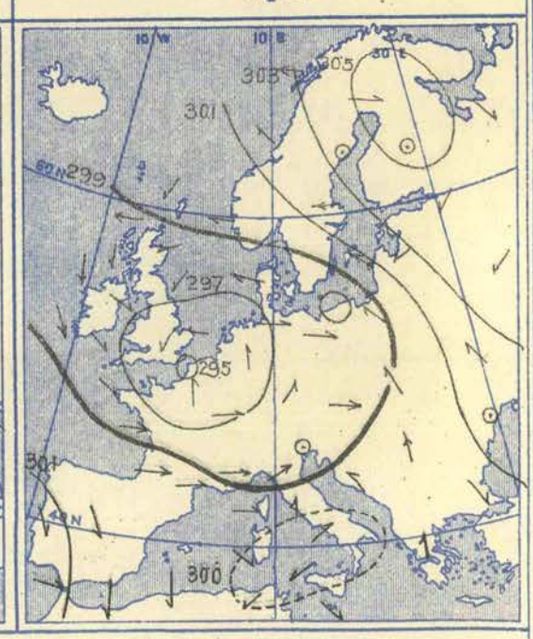
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Russia and bright in most places as well as over the Spanish Peninsula; very variable over central Europe, rainy in the north of France, dull in the south-east of England but fair as a whole in Ireland. Rain later over all but our northern and north-western districts—great quantities locally at Faerder, the Scaw and Brest, thunder and lightning at Cuxhaven and Lyons.

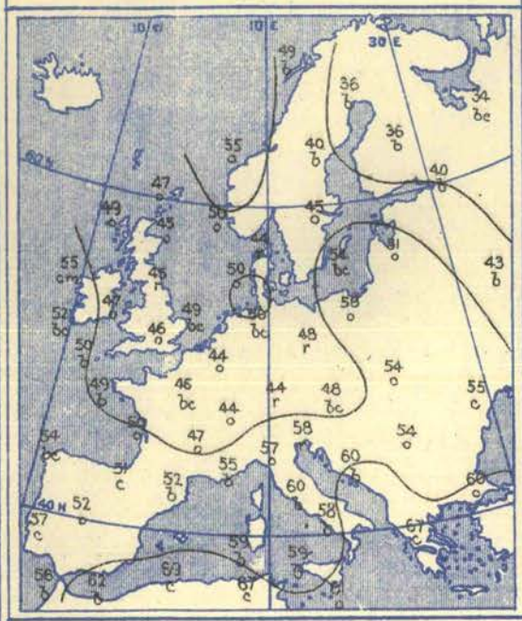
Temperature fallen again over central England and France, risen in Ireland, Scotland, Norway, and central Europe. Morning readings highest, (1) 68° at Patras, and much above 60° at several stations on the southern shores of the Mediterranean; above 50° on the Portuguese coast and over central Europe; (2) above 50° on the coast of Norway also. Lowest, 30° to 36° over eastern Lapland and the north of Russia, 36° at Hernösand, 40° at Riga. Not touching 60° over the British Islands later, but rising to above that value in the south of France to 68° at Rome, and between 70° and 80° over Algeria.

Wind light and anticyclonic over Russia, strong from North and North-West in the west of the British Islands, Spain, and over the Bay of Biscay, South-Westerly over eastern France, Southerly over Belgium, Easterly over the North Sea, moderating in our Islands later but rising to a gale in some parts of Scandinavia and over the Baltic.

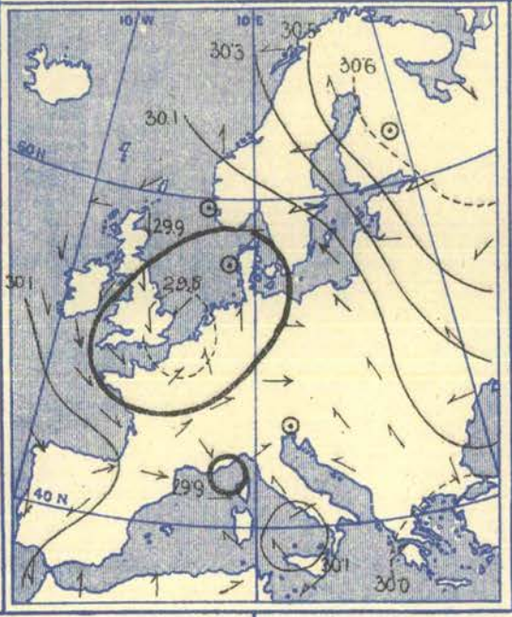
Barometer highest, (1) 30·3 ins. and more to 30·2 ins. over the western parts of Russia; (2) 30·3 ins. and more over the Azores, and exceeding 30·0 ins. over Algeria and the south-west of Spain. Lowest, 29·4 ins. and less in a depression having its centre over the south-east of England—gradients steep over the southern parts of Scandinavia. Very little change later but depression moving very slowly to the south-eastwards.

Thursday, 9th May.

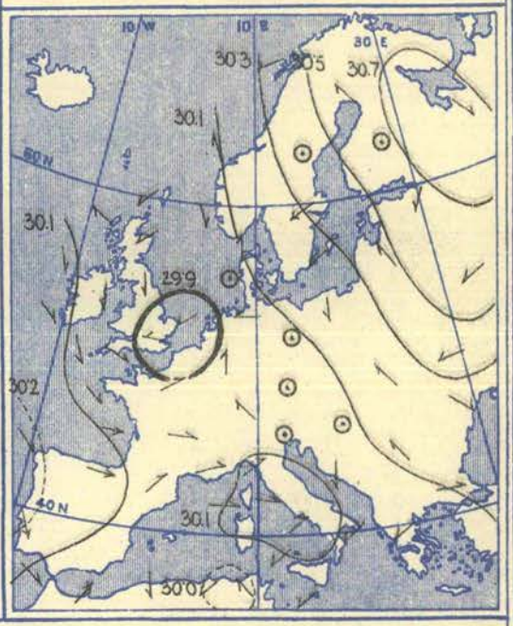
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over northern, eastern and some parts of central Europe, and in the northern and western parts of the British Islands, rainy over the southern and central parts of England and at some French and German stations. Showers later in various parts of France, Germany and England and the south of Norway; a considerable fall in London, and more than an inch at Faerder; thunderstorms at Cuxhaven, Lyons and Rochefort, and one peal of thunder in south-west of London.

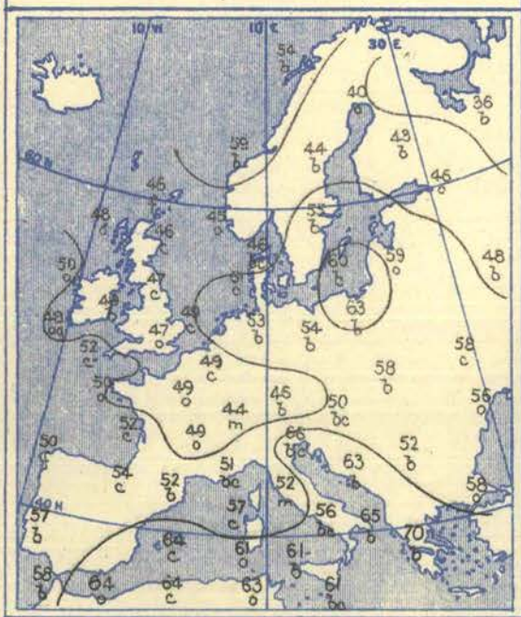
Temperature fallen over England and France, risen over Germany. Morning readings highest 68° at Patras, 67° at Barcelona, 63° at Brindisi, 60° at Leghorn; above 50° over Germany, and 55° at Christiansund. Lowest 36° to 30° over Finland and the north of Russia; 42° at Oxford, 45° at Bath and in London. Just touching 60° later at some of the Irish stations and in some parts of Scandinavia, 63° to 65° in the south of France, above 70° in several parts of central Europe and 75° at Pesaro.

Wind almost completely cyclonic; South-Easterly over central Europe, Easterly in the north, Northerly and North-Westerly on our western coasts, North-Westerly over Spain, Westerly and South-Westerly over France. Very little change later excepting some alteration in the force to that of a gale again in the Gulf of Finland.

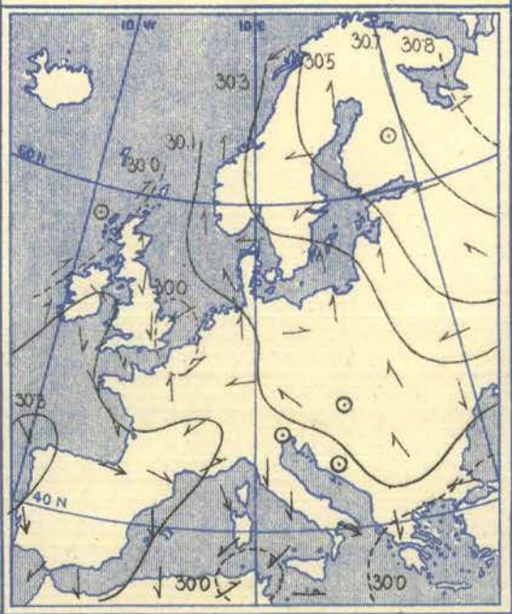
Barometer highest (1), 30·6 ins. to 30·4 ins. over the north of Russia; (2) 30·37 ins. in the Azores and 30·2 ins. to 30·1 ins. in Portugal and the north of Spain. Lowest 29·68 ins. at Cape Gris Nez and below 30·0 ins. all over England and central Europe as well as over Asia Minor Depression near Dover filling up partially later.

Friday, 10th May.

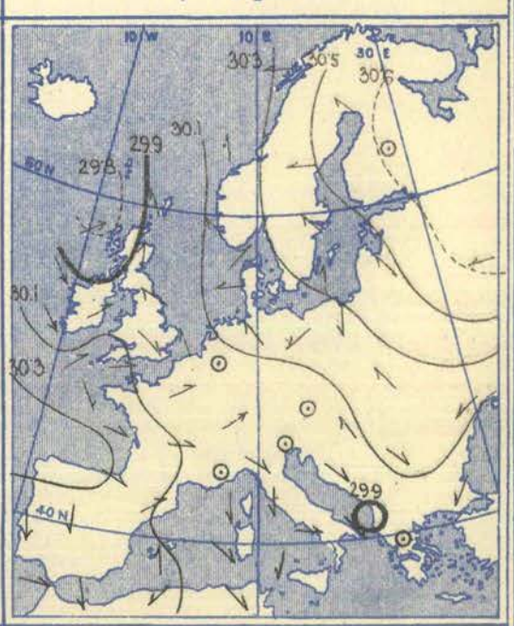
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Germany, Russia, and Scandinavia, also in Portugal and the south of Spain, dull in almost all parts of of our Islands, and showery over the south-eastern and southern midland counties. Some rain later in nearly all places—most in the west and north, and in many parts of France and Germany, thunderstorms at Biarritz, in several parts of France, and showers on the eastern shores of the North Sea.

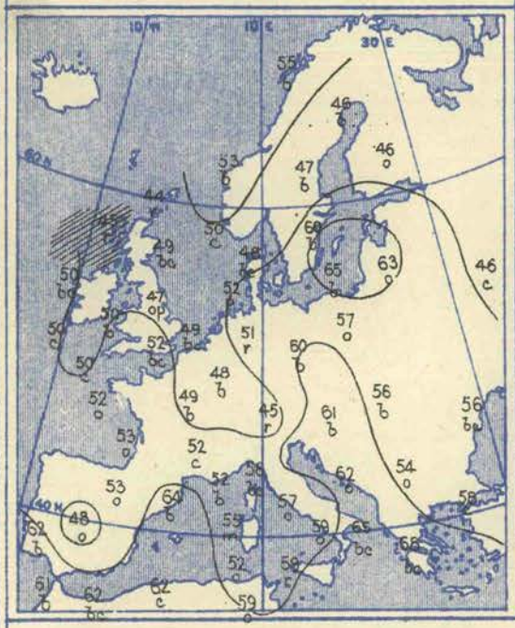
Temperature in morning highest, 70° at Patras, 66° at Trieste, 64° at Algiers and Palma, and exceeding 60° at many of the Mediterranean stations; 60° at Wisby, 52° at Scilly, 50° at Roches Point, 59° at Christiansund and at Riga. Lowest, 36° at Archangel, 40° at Ulcaborg, 46° at Helsingfors, 44° at Newton Reigny, 46° at Oxford, 44° at Belfort. Rising later to 70° at Wisby, 68° at Berlin, 63° at Nice, 72° at Naples, 70° at Palermo, 81° at Nemours, 82° at Biskra.

Wind very variable in direction and, as a rule, light in force. Mainly Easterly over northern Europe, and Northerly to Westerly in the south. A cyclonic circulation of very light breezes still found over England, the Netherlands and north of France, but Southerly breezes prevailing in the west of Ireland.

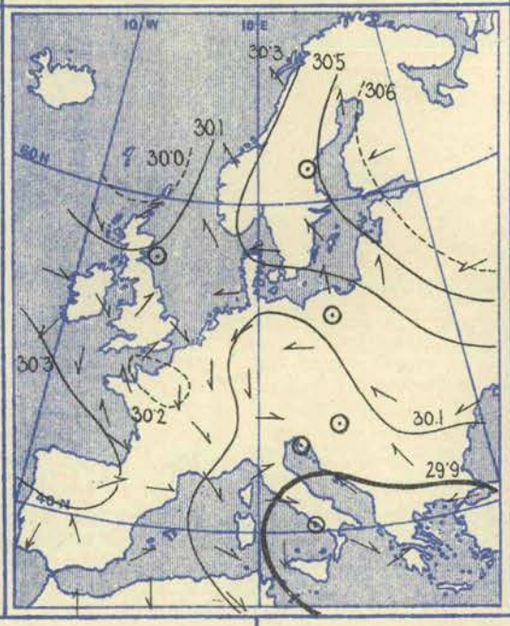
Barometer highest, (1) 30·80 ins. at Archangel, and exceeding 30·3 ins. over the whole of Russia, Finland, Lapland, and the north of Sweden; (2) 30·3 ins. and more in the north-west of Spain. Lowest, 30·0 ins. and less off the north-west coasts of our Islands, and over Turkey and Asia Minor; also in a small very shallow disturbance off our east coast. A shallow depression coming over the north-west of Scotland later, and secondaries over Ireland

Saturday, 11th May.

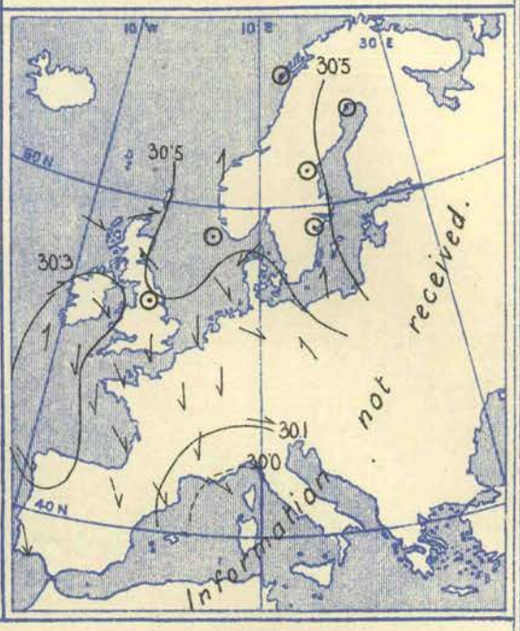
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many places, cloudy and dull in many others, rainy at a few stations in the extreme north of our Islands, and at some distantly separated stations in western Europe. Rain later in the north of Scotland, and some parts of western Europe, considerable quantities on the eastern shores of the North Sea (0·6 ins. at Fanö).

Temperature rising a little over England, and rather considerably over central Germany. Morning readings highest, 68° at Patras, above 60° at many Mediterranean stations; 60° at Berlin, 58° at Swinemunde, 52° in London, 55° at Bodö. Lowest, 46° in several parts of Russia, also at Newton Reigny; 48° at Donaghadee and Parsonstown. Rising later to 55° or more in many parts of our Islands, 60° to 64° over central England, but to 70° at Stockholm, 73° at Wisby, 75° at Berlin and Lisbon.

Wind very light over the eastern, central, and western parts of the Continent, and very variable in direction, but in the main Northerly to Easterly in direction; light to moderate from West and North along our western coasts, very variable indeed over England. The Northerly wind becoming more general later over England, and a Southerly breeze appearing in the west and south of Ireland.

Barometer highest, (1) 30·6 ins. and more to 30·3 ins. over nearly the whole of Russia and Scandinavia, and (2) 30·3 ins. at Biarritz and off the south-west of Ireland, 30·0 ins. and less off the north of Scotland. Lowest, 29·0 ins. and less over south-eastern Europe, and below 30·1 ins. in a "hollow" spreading thence over central Europe. Rising later over the western countries; a new anticyclonic system advancing over Ireland, and towards western Europe from the westward.

GENERAL NOTES.

At the commencement of this week pressure was highest (30·1 ins. and more to 30·0 ins.) over the greater part of the British Islands and France and above 30·0 ins. in the north-west of Norway; lowest, 29·4 ins. and less in the south of Russia, 29·5 ins. and less in the north of Russia, and below 29·9 ins. over the southern parts of the Iberian Peninsula and Morocco. The winds over the Continent were mainly Northerly to Easterly (a gale in Finland), in our Islands very variable and light. Temperature was low generally—the weather showery in places but, as a whole, dry. Secondary depressions were then developed over France and a new disturbance advanced over Scotland from the north-westward. Moving very slowly in a south-easterly direction it brought considerable rain to many parts of our Islands, and, over the Continent also, there were rains from the Continental depressions; snow at St. Petersburg.

From Wednesday a gradual change occurred; both in the north and the south of Russia pressure began to recover, as well as in the far west and south-west. Most of the depressions filled up, but that over the south-east of England only became shallower and moved towards Belgium, further rains fell over England, France and the North Sea, thunderstorms occurred in places and temperature became very low.

On Thursday there were two well-defined high pressure areas—one over the northern the other over and off the south-western parts of Europe, but the weather improved and after the appearance of a new (not deep) depression in the north on Friday and a new anticyclone in the west on Saturday, finer and warmer conditions became general.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	13·3	−24·9	12	−23	BRIGHTON	28·8	−18·2	27	−18
STRATHPEFFER SPA	20·2	−17·6	18	−16	WORTHING	39·3	?	37	?
EDINBURGH	24·2	−11·6	22	−11	BOGNOR	37·2*	?	35*	?
MORPETH	36·5	?	34	?	WATERGATE (Emsworth)	30·2	?	29	?
NEWCASTLE-ON-TYNE	23·3	?	21	?	WESTBOURNE (Emsworth)	35·0*	−14·0	33*	−13
OSWALDKIRK (Yorkshire)					VENTNOR HOSPITAL	37·9	−11·9	36	−11
YORK	? 22·7	? −16·8	? 21	? −15	SOUTHPORT	48·7	?	45	?
LOWESTOFT	44·0	?	42	?	RHYL	45·4*	?	42*	
HOLLESLEY BAY	45·8	?	43	?	COLWYN BAY		?		?
SHEFFIELD	25·0	?	23	?	ABERDOVEY	50·5*	?	47*	?
WORKSOP	26·7	−10·3	25	−10	TENBY	54·2	+ 5·7	51	+ 5
THURCASTON (Leicestershire)	28·9	−10·1	27	−10	NEWQUAY	55·5	+ 8·4	53	+ 8
MARGATE	38·6	− 3·9	37	− 3	TORQUAY	47·5	+ 0·3	46	0
BROADSTAIRS	44·1	?	42	?	GUERNSEY	*		*	
EASTBOURNE									

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Mar. 2nd, 1901	Tenby	—	—	—	—	—	—	—	—	—	—	—	16·9	− 8·7	23	− 12
,, ,, ,, 9th, ,,	Arlington	49	34	46·3	37·6	41·8	+1·1	12	17	5	1·00	+0·16	—	—	—	—
,, ,, ,, 9th, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	27·3	− 0·4	35	− 1
,, ,, ,, 16th, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	11·9	?	15	?
,, ,, ,, 23rd, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	37·3	?	44	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 20.] *Third Series* — WEEK ENDING SATURDAY, MAY 18TH, 1901. — [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 116.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	30	59·3	39·4	48·8	2 above	59	+15	7	+ 1	355	+ 34	560	+11
	1. SCOTLAND, EAST	73	32	61·8	39·2	49·8	1 above	66	+14	8	+ 3	361	- 49	652	+50
	2. ENGLAND, N.E.	68	32	58·0	40·3	48·6	0 (average)	53	+ 1	5	+ 2	362	- 53	516	+14
	3. ENGLAND, EAST	70	32	58·3	40·7	48·9	1 below	54	-13	4	+ 1	411	-113	560	+12
	4. MIDLAND COUNTIES	70	32	63·9	38·4	50·4	0 (average)	74	+ 7	10	+ 6	472	- 83	590	+36
	5. ENGLAND, SOUTH	73	34	61·7	42·5	51·5	0 (average)	67	- 7	0	- 1	461	-136	445	+38
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	73	30	64·6	39·4	51·2	2 above	74	+16	7	+ 4	430	- 21	470	+40
	7. ENGLAND, N.W.	72	32	63·5	41·6	51·9	2 above	71	+ 9	1	- 1	428	- 44	453	+47
	8. ENGLAND, S.W.	73	35	64·5	43·1	53·1	2 above	78	+11	0	- 1	516	- 74	369	+52
	9. IRELAND, NORTH	74	35	62·9	42·9	52·3	3 above	72	+13	0	- 2	446	- 80	374	+14
	10. IRELAND, SOUTH	77	34	65·6	43·2	53·8	2 above	83	+15	0	- 1	562	-100	325	+63
	—CHANNEL ISLANDS	65	46	59·1	48·3	53·4	1 above	80	+ 6	0	0	670	- 61	160	+38

Rainfall. — Bright Sunshine.

	DISTRICTS. (See p. 116.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	6 less	92	+ 4	14·8	- 3·6	61	+23	54	+20	470	+53	30	+ 3
	1. SCOTLAND, EAST	1	less than ½	5 less	77	+ 4	9·6	- 1·0	70	+29	62	+26	481	+20	31	+ 2
	2. ENGLAND, N.E.	0	—	4 less	76	+ 7	7·4	- 0·9	69	+26	62	+24	504*	+58	32	+ 3
	3. ENGLAND, EAST	0	—	4 less	75	+ 4	8·0	0·0	65	+18	60	+17	544	-15	32	- 1
	4. MIDLAND COUNTIES	0	—	5 less	70	+ 3	9·5	+ 0·3	73	+34	67	+31	476	+19	31	+ 1
	5. ENGLAND, SOUTH	0	—	4 less	66	0	9·1	- 0·5	71	+23	67	+22	562	+ 7	35	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	6 less	75	- 4	15·2	- 3·7	72	+28	65	+25	553	+78	35	+ 5
	7. ENGLAND, N.W.	0	—	5 less	73	+ 2	9·4	- 1·7	85	+41	78	+37	583*	+98	36	+ 6
	8. ENGLAND, S.W.	0	—	5 less	70	- 6	13·6	- 0·8	85	+36	80	+34	630	+68	40	+ 4
	9. IRELAND, NORTH	0	—	5 less	85	0	12·1	0·0	82	+40	74	+36	554	+89	35	+ 6
	10. IRELAND, SOUTH	0	—	6 less	74	- 6	13·1	- 1·3	85	+39	77	+35	603	+75	38	+ 5
	— CHANNEL ISLANDS	0	—	4 less	86	+ 7	13·0	+ 1·5	69	+ 5	66	+ 4	600*	-77	36	- 5

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was very fine and bright over the whole Kingdom, the only rain experienced falling on one day, and being confined to a few of the extreme northern and north-western stations.

Temperature was rather above the mean in most parts of the Kingdom, but only just equal to it in England S. and N.E. and the Midland Counties, while in England E. it was 1° below the normal. The highest of the maxima were registered, as a rule, on the 14th ; they ranged from 77° in Ireland S., 75° in Scotland N., and 74° in Ireland N., to 70° over central and eastern England, 68° in England N.E., and to 65° in the Channel Islands. The maxima on the east coast of England were mostly low for the time of year, the thermometer very rarely exceeding 55°. The lowest of the minima were recorded on rather irregular dates, and varied from 30° in Scotland N. and W. and 32° in most of the English districts, to 34° or 35° in Ireland and the south of England, and to 46° in the Channel Islands. The diurnal range of temperature was unusually large in all inland localities.

Rainfall.—The week was entirely rainless except in a few places in the north-western parts of Ireland and the north and west of Scotland, and there the fall was very slight.

Bright Sunshine was extremely prevalent in all districts. The percentage of the possible duration ranged from 80 in England S.W., 78 in England N.W., and 77 in Ireland S. to 62 in England N.E. and Scotland E., 60 in England E., and to 54 in Scotland N. The highest percentage at any individual station was 86 at Tenby and Llandudno.

Barometer and Wind.—The distribution of pressure was anticyclonic throughout the period. At the commencement of the week the central part of the system lay over Sweden and the winds were light from the Southward along our western coasts, and from the Eastward or North-Eastward elsewhere. Later in the week the anticyclone moved slowly westwards or south-westwards until, finally, it covered the southern half of the United Kingdom. With this change the winds became Westerly or North-Westerly in Scotland, and blew from a rather more northerly point over England, while in the extreme west the wind was light from the Eastward or very variable.

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* This value has been altered slightly owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	36	51·7	39·6	45·3	+ 0·5	33	7	2	0·04	− 0·38	*	*	*	*
	Stornoway	62	35	56·1	39·4	47·3	+ 0·6	48	7	0	—	− 0·55	50·2	+ 7·5	44	+ 7
	Wick	62	30	56·4	39·0	47·2	+ 0·3	49	8	2	0·08	− 0·33	*	*	*	*
	Lairg Ⓢ	75	31	61·3	36·5	49·6	+ 3·4	76	15	0	—	− 0·49	*	*	*	*
	Glencarron Ⓢ	68	33	61·5	40·3	50·3	+ 2·8	65	5	1	0·02	− 1·02	*	*	*	*
	Fort Augustus Ⓢ	66	32	61·1	38·4	49·1	+ 0·3	65	10	0	—	− 0·47	63·3	+33·1	56	+29
	Fort William Ⓢ	69	39	63·9	42·5	52·6	+ 3·3	74	0	0	—	− 0·80	69·3	+29·6	61	+26
1. SCOTLAND, E.	Nairn	71	32	61·3	37·4	48·6	0·0	66	13	1	0·04	− 0·33	*	*	*	*
	Aberdeen	61	34	57·0	41·1	48·6	+ 1·1	50	3	1	0·02	− 0·44	67·0	+24·0	59	+21
	Braemar Ⓢ	68	?	62·2	?	?	?	?	?	0	—	− 0·50	*	*	*	*
	Ochtertyre Ⓢ	73	36	67·4	40·6	53·2	+ 3·8	84	4	1	0·01	− 0·52	*	*	*	*
	Leith	66	36	61·1	41·0	50·5	+ 1·1	64	3	0	—	− 0·38	*	*	*	*
	Marchmont Ⓢ	68	32	61·6	36·1	48·1	+ 0·6	68	17	0	—	− 0·53	77·8	+36·2	69	+32
2. ENGLAND, N.E.	Alnwick Castle	64	32	58·4	36·0	46·5	− 1·0	57	17	0	—	− 0·47	*	*	*	*
	Durham	68	33	58·8	37·1	47·3	− 1·1	58	14	0	—	− 0·44	72·7	+33·9	65	+30
	Shields	66	38	54·9	41·3	47·7	− 0·2	43	2	0	—	− 0·38	*	*	*	*
	Scarborough Ⓜ	60	44	57·0	45·9	51·1	+ 2·4	64	0	0	—	− 0·44	75·8	?	68	?
	Spurn Head	62	40	55·3	43·6	49·1	− 0·1	50	0	0	—	− 0·35	*	*	*	*
	Fulbeck (Lincolnshire)	68	33	63·5	37·7	49·8	− 0·7	73	12	0	—	− 0·42	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	68	36	58·1	40·6	48·8	− 1·6	53	4	0	—	− 0·40	65·0	+18·0	59	+16
	Yarmouth	56	39	52·7	43·6	47·9	− 1·7	41	0	0	—	− 0·40	*	*	*	*
	Geldeston	62	32	56·6	39·6	47·6	− 2·6	49	7	0	—	− 0·40	62·3	+12·3	58	+12
	Cambridge	70	55	64·1	38·9	50·7	− 0·8	74	9	0	—	− 0·41	66·6	+21·0	62	+20
	Felixstowe	62	35	56·6	41·5	48·6	− 0·4	48	1	0	—	?	71·4†	?†	66†	?†
	Rothamsted	68	34	61·4	39·8	50·0	− 0·3	65	6	0	—	− 0·45	64·9	+20·9	60	+19
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	32	67·1	35·7	50·5	0·0	86	18	0	—	− 0·43	*	*	*	*
	Loughborough	70	33	64·6	37·9	50·5	− 0·8	77	11	0	—	− 0·46	*	*	*	*
	Colly Weston (Stamford)	67	36	62·7	39·0	50·1	− 0·6	69	8	0	—	?	*	*	*	*
	Cheadle Ⓜ	67	36	62·9	39·0	50·2	+ 1·2	70	8	0	—	− 0·51	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	67	40	62·2	41·1	51·0	+ 1·0	67	3	0	—	− 0·52	62·1	?	57	?
	Churchstoke Ⓜ	69	32	65·4	35·6	49·7	+ 0·7	81	18	0	—	− 0·49	89·3	+45·5	81	+41
	Hereford (Belmont) Ⓜ	68	34	64·9	38·8	51·1	+ 0·3	77	9	0	—	− 0·43	*	*	*	*
	Cirencester	66	36	62·3	38·4	49·6	− 0·4	54	10	0	—	− 0·49	81·8	+35·8	76	+34
	Oxford	68	37	63·1	39·7	50·7	− 0·8	71	6	0	—	− 0·40	72·5	+28·5	67	+26
5. ENGLAND, S.	London	71	37	64·6	42·4	52·8	− 0·1	76	0	0	—	− 0·38	66·2†	+26·2†	61†	+23†
	Swarraton (Alresford) Ⓜ	69	34	63·5	38·3	50·1	+ 0·2	72	10	0	—	− 0·44	*	*	*	*
	Dungeness	62	37	56·3	44·4	50·0	− 1·3	56	0	0	—	− 0·30	59·7	?	56	?
	Hastings (St. Leonards)	66	37	58·5	43·6	50·6	− 0·9	60	0	0	—	− 0·37	66·1	+13·2	62	+13
	Southampton	73	42	67·9	43·2	54·8	+ 2·0	90	0	0	—	− 0·40	81·9	+32·9	77	+31
	Portland Bill	63	42	58·4	44·4	51·0	− 0·3	63	0	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	67	38	62·9	41·3	51·5	+ 1·2	69	2	0	—	− 0·48	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	69	35	63·0	41·6	51·7	+ 2·0	70	1	0	—	− 0·83	*	*	*	*
	Glasgow	72	37	64·7	43·2	53·3	+ 4·0	79	0	0	—	− 0·55	51·6	+14·4	46	+13
	Glenlee Ⓢ	73	30	67·5	33·2	49·3	+ 0·5	88	25	0	—	− 0·68	*	*	*	*
	Douglas (Isle of Man)	67	34	63·0	39·4	50·5	+ 1·1	70	7	0	—	− 0·50	93·1	+42·1	84	+38
7. ENGLAND, N.W.	Newton Reigny	72	32	67·4	36·0	50·8	+ 3·0	87	17	0	—	?	83·0	?	75	?
	Stonyhurst	68	40	62·9	40·9	51·1	+ 1·6	68	3	0	—	− 0·60	76·4	+32·9	69	+29
	Blackpool Ⓜ	67	39	62·2	40·3	50·6	+ 0·3	67	5	0	—	− 0·46	82·8	+38·3	75	+35
	Manchester (Prestwich)	68	37	63·8	39·3	50·8	+ 1·2	73	8	0	—	− 0·53	79·7	?	72	?
	Liverpool Obsy. (Bidston)	67	42	62·6	43·4	52·4	+ 1·4	73	0	0	—	− 0·42				
	Chester (Hawarden Bridge)	71	36	65·3	40·7	52·3	+ 0·5	78	4	0	—	?	*	*	*	*
	Llandudno Ⓜ	67	39	63·0	45·8	53·9	+ 2·9	83	0	0	—	− 0·42	94·1	+49·1	86	+45
	Holyhead	64	42	60·4	46·4	53·0	+ 2·3	77	0	0	—	− 0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	73	35	70·6	40·1	54·4	+ 3·5	95	5	0	—	− 0·60	*	*	*	*
	Pembroke	66	42	59·7	46·1	52·5	+ 2·4	74	0	0	—	− 0·44	88·1	+37·9	82	+36
	Clifton	?	41	?	42·3	?	?	?	?	0	—	− 0·52	*	*	*	*
	Bath	68	37	64·9	40·1	51·8	+ 0·2	77	5	0	—	?	*	*	*	*
	Arlington (N. Devon)	72	38	66·6	41·4	53·2	+ 3·3	81	2	0	—	− 0·63	*	*	*	*
	Cullompton Ⓜ	70	37	66·6	41·0	53·0	+ 1·3	81	3	0	—	− 0·48	78·1	+33·2	73	+31
	Falmouth	63	44	58·8	46·8	52·4	+ 0·7	73	0	0	—	− 0·57	87·3	+35·1	82	+33
	Plymouth	70	41	64·0	46·4	54·7	+ 1·8	89	0	0	—	− 0·46	83·6	+34·6	79	+33
9. IRELAND, N.	Malin Head	63	41	58·1	46·6	52·0	+ 2·6	70	0	1	0·02	?	*	*	*	*
	Londonderry	71	43	67·1	44·6	55·2	+ 4·3	92	0	0	—	− 0·56	*	*	*	*
	Edenfel (Omagh)	74	39	67·3	40·6	53·2	+ 4·2	84	4	0	—	− 0·55	*	*	*	*
	Blacksod Point	68	43	60·6	46·6	53·2	+ 2·7	78	0	0	—	?	*	*	*	*
	Markree Castle	72	35	64·5	39·2	51·1	+ 1·7	75	8	0	—	− 0·57	85·4	+42·9	77	+39
	Armagh	70	35	65·1	39·1	51·3	+ 1·6	77	8	0	—	− 0·48	77·5	+36·5	70	+32
	Donaghadee	65	36	57·6	43·3	50·0	+ 0·2	56	0	0	—	− 0·49	*	*	*	*
10. IRELAND, S.	Dublin	65	39	62·7	43·6	52·6	+ 0·9	74	0	0	—	− 0·45	88·8	+40·9	81	+37
	Parsonstown	73	40	68·3	40·7	53·7	+ 3·2	87	4	0	—	− 0·52	83·6	+41·8	76	+38
	Kilkenny	72	34	67·3	40·3	53·0	+ 2·0	84	5	0	—	− 0·48	*	*	*	*
	Roche's Point	62	40	58·7	45·3	51·6	− 0·4	67	0	0	—	− 0·65	*	*	*	*
	Valencia	69	40	64·3	44·6	53·9	+ 2·1	83	0	0	—	− 0·69	81·4	+34·0	75	+31
	Killarney	76	41	66·7	44·0	54·7	+ 3·3	89	0	1	0·28	− 0·41	*	*	*	*
	Foynes	77	37	71·4	43·9	56·8	+ 6·0	104	0	0	—	− 0·52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	47	58·3	49·0	53·4	+ 1·3	80	0	0	—	− 0·39	83·7	?	79	?
	Jersey	65	46	59·9	47·6	53·4	+ 0·4	80	0	0	—	− 0·42	66·3	+10·3	63	+10

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

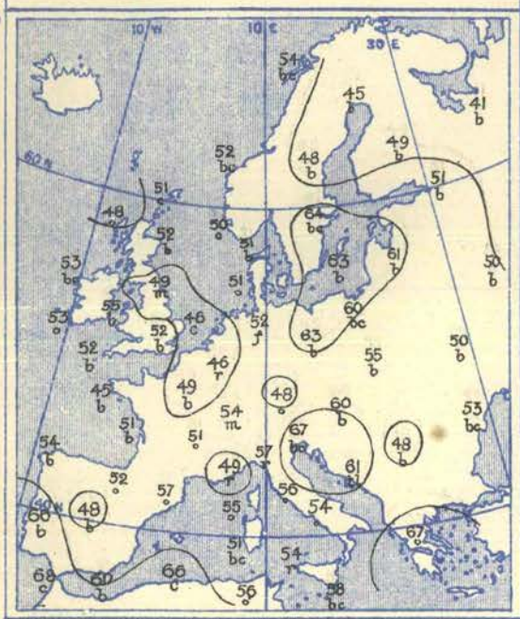
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 12th May.

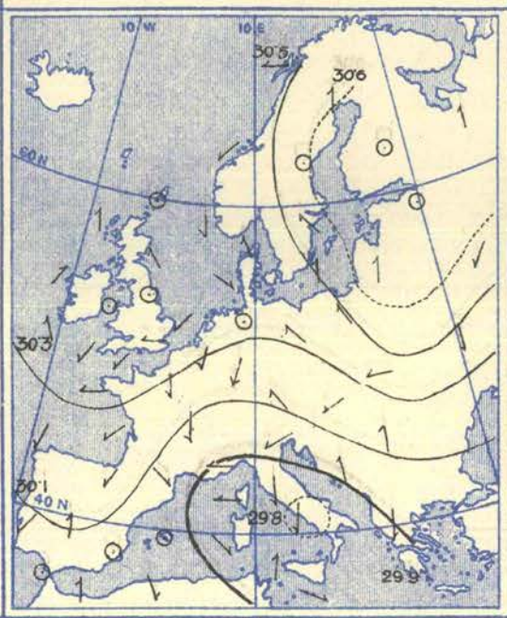
Temperature and Weather.

8 a.m.

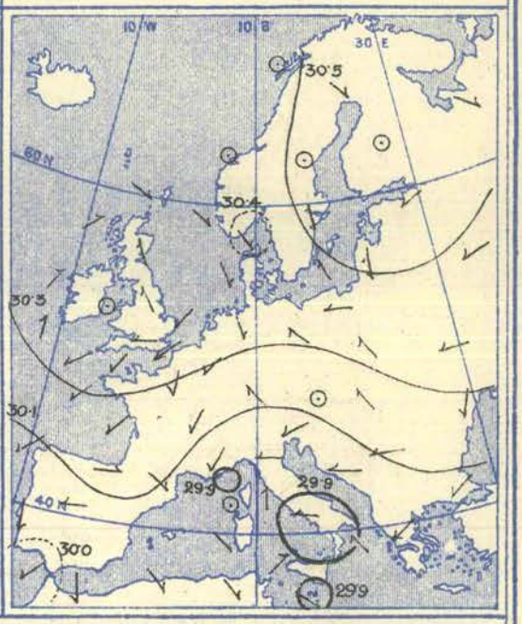


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent but dull in the Netherlands, with rain at Brussels. Dull also over Italy and the south of France, with rain at Nice, Turin and Leghorn; thunderstorm reported at Lesina. Rain falling later in the south of Norway and over nearly the whole of Italy, the amount being as much as 0·9 in. at Pesaro.

Temperature changed rather irregularly but risen in most places. Morning readings highest, 68° at Oporto, San Fernando and Barcelona, and 67° at Trieste and Patras; above 60° at many of the Mediterranean Spanish coast stations, and also over the Baltic, north Germany and the south of Sweden. Lowest, (1) 41° at Archangel and 45° at Haparanda, (2) 43° at Spurn Head and 46° at Loughborough and Yarmouth; (3) 46° at Brussels and 48° at Madrid. Rising during day to between 60° and 65° in many parts of the United Kingdom, but remaining below 55° on the east coasts of Great Britain. Reaching 70° or more at several of the Continental stations (even in the south of Sweden) and touching 81° at San Fernando.

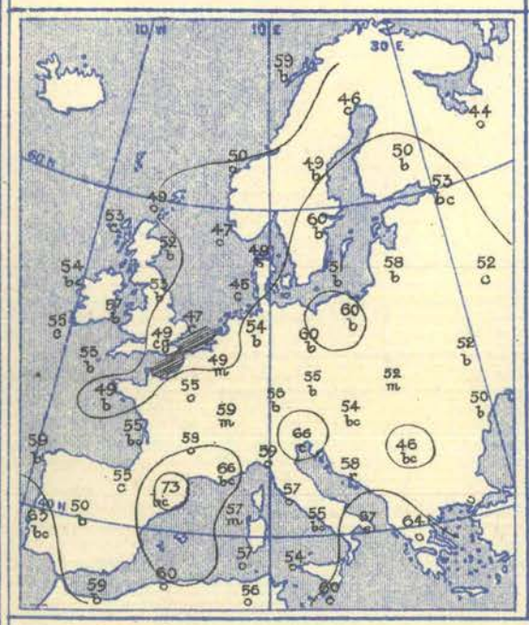
Wind light to moderate from the South-Eastward over Denmark, the Baltic and the south of Sweden, from the Eastward or North-Eastward over the greater part of England, and from the Northward over the Netherlands, France, Italy, and the Spanish Peninsula. Light from the Southward in Ireland and the north of Scotland. Easterly or North-Easterly over Austria and the central and southern parts of Russia; calm or variable in the north of Russia. No important change occurring during day.

Barometer highest, 30·6 ins. and upwards over the Gulf of Bothnia and northern Russia; 30·3 ins. and upwards in an anticyclone embracing the whole of northern and north-western Europe. Lowest, 29·8 ins. and less in a depression over southern Italy. Other shallow disturbances appearing later over the south of Spain and various parts of the Mediterranean; no important change occurring in the northern and north-western countries.

Monday, 13th May.

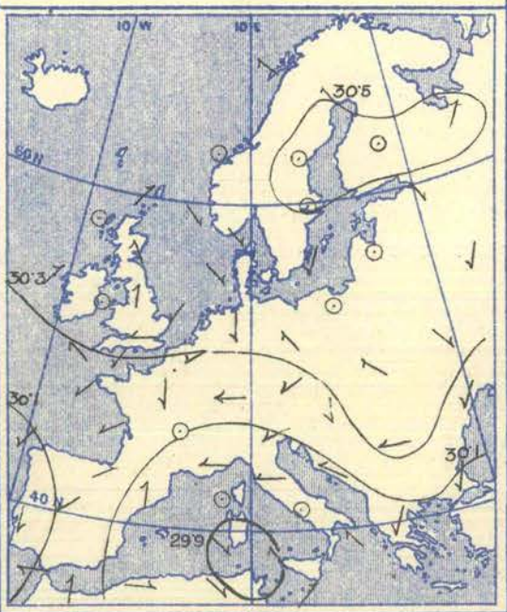
Temperature and Weather.

8 a.m.

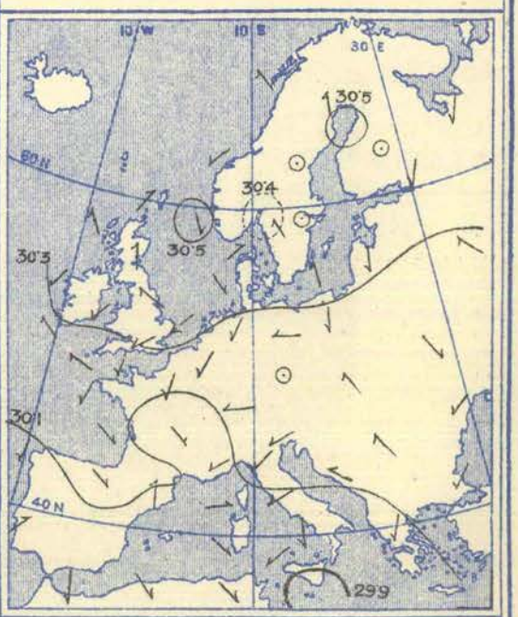


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull in the west of Norway, as well as at many of the Italian and Mediterranean stations. A little rain falling later over the southern parts of France and Italy; no decided change occurring elsewhere.

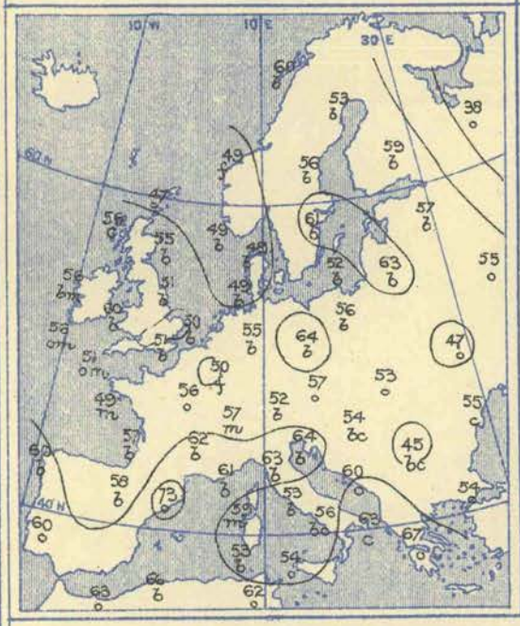
Temperature risen in most parts of our Islands, France, Spain and Italy, but fallen elsewhere. Morning readings highest, (1) 73° at Barcelona, 67° at Brindisi, 66° at Trieste, and 64° at Patras; (2) 64° at Memel, 62° at Wiesbaden, and 61° at Ulcaborg; slightly above 55° at some of our own north-western stations. Lowest, (1) 44° at Archangel, and 46° at Haparanda; (2) 46° at Loughborough and Oxford. Rising during day to between 60° and 65° in many parts of the United Kingdom, and to 68° at Parsonstown, but remaining below 55° at many of our east and south coast stations. Exceeding 70° in France and Spain, and in severa parts of central Europe, and reaching 81° at Oporto.

Wind light to moderate from the North-Eastward over England, France, Spain, Germany, and the Netherlands, but South-Easterly or Southerly in Ireland and Scotland; North-Westerly on the eastern shores of the North Sea. Calm or variable over the northern parts of Russia and Scandinavia; North-Easterly in the south of Russia; Easterly or South-Easterly in Italy: no material change occurring during day.

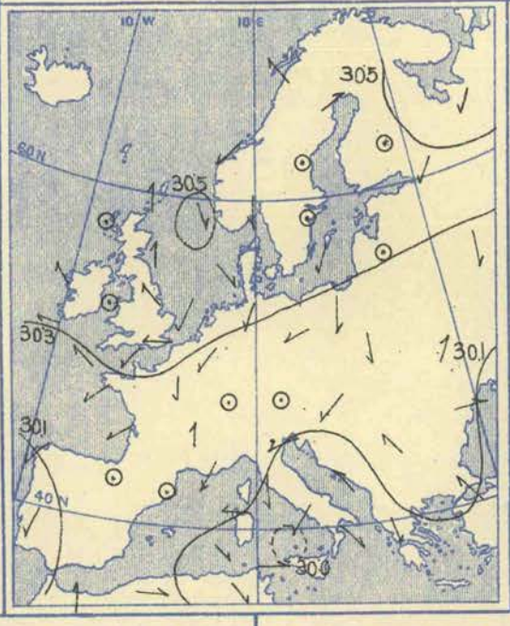
Barometer highest, 30·5 ins. and upwards over the northern parts of Sweden and Russia; 30·2 ins. and upwards in an anticyclone covering the whole of north-western, northern, and central Europe. Lowest, 29·9 ins. and less in a shallow depression lying over Sardinia, Tunis, and the adjacent parts of the Mediterranean. No important change occurring later, but barometer falling somewhat over northern Europe. Mediterranean depression moving south-eastwards.

Tuesday, 14th May.

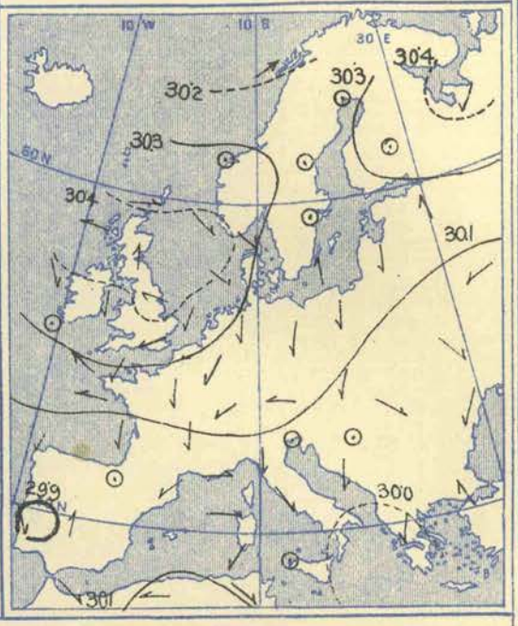
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull and misty at several of the English Channel stations and in the north of France, and foggy at Brussels. Dull also over the central and southern parts of Russia. Thunder and lightning occurring later at several stations in the south of France and thunder only at Karlstad; a little rain falling in isolated parts of Scandinavia and also in the extreme south of Russia.

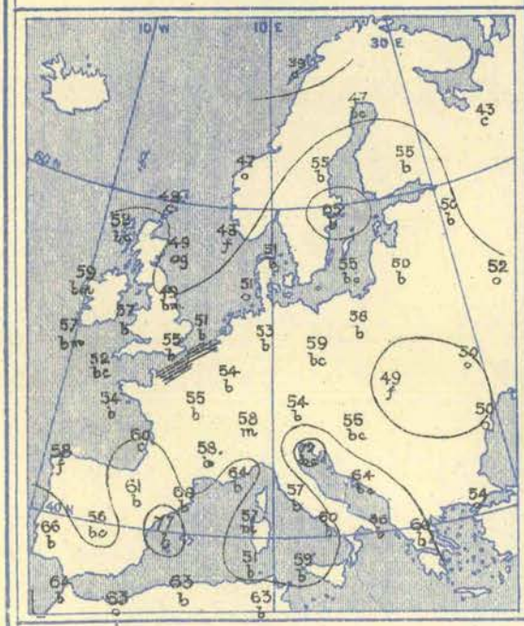
Temperature risen in most places. Morning readings highest, 73° at Barcelona, 68° at Oporto and Bilbao, and 67° at Patras; above 60° in many parts of southern Europe and also at some of the Baltic and north German stations; above 55° at several of our own western and northern stations. Lowest, (1) 38° at Archangel; (2) 47° at Sumburgh Head, 48° at Oxford and 49° at Loughborough. Rising during day to between 65° and 70° over a considerable portion of our Islands to 71° in London and at Nairn, and to 72° at Parsonstown; exceeding 75° in several parts of France, Spain and Germany, and reaching 81° at Madrid.

Wind light to moderate from the North-Eastward over England and the central and southern parts of the Continent generally, but calm in the south of France; Easterly in Ireland; variable or Southerly in Scotland. Calm or variable over the greater part of Russia and Scandinavia. No important change occurring during day.

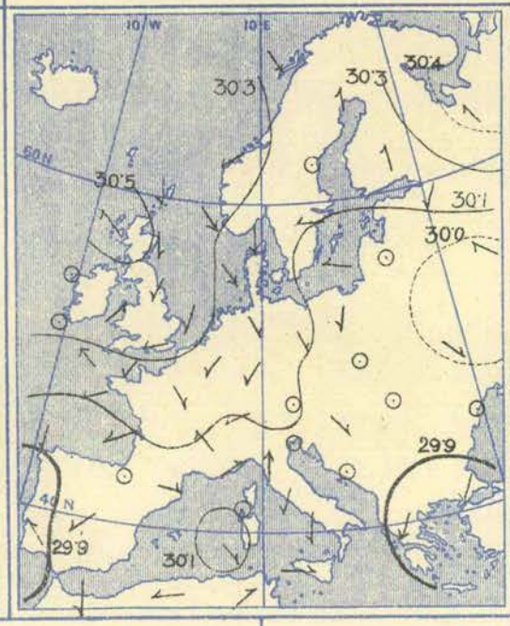
Barometer highest, 30·5 ins. and upwards in two areas, one lying over the northern part of the North Sea and the other over the extreme north of Russia; 30·2 ins. and upwards in an anticyclone covering the whole of north-western, northern and central Europe. Lowest, 30·0 ins. and less in three small and very shallow depressions lying respectively off the Portuguese coasts, to the northward of Sicily and over Greece. Anticyclone giving way partially during day; Portuguese depression advancing eastwards over Spain.

Wednesday, 15th May.

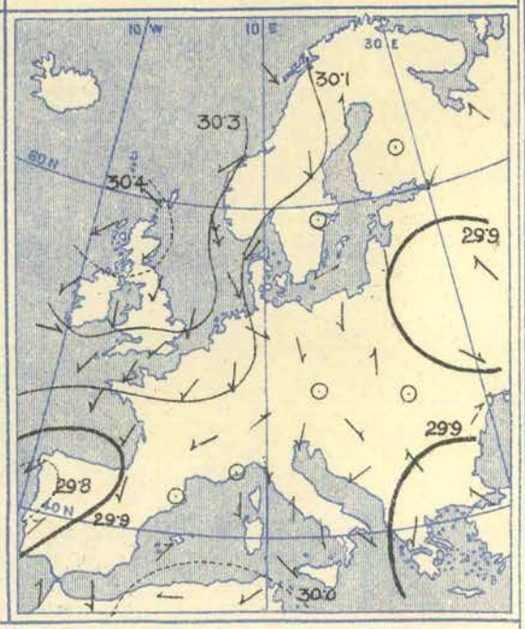
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over our Islands and the greater part of the Continent but cloudy in the west of Norway as well as in the central and southern parts of Russia. A little rain falling later in the north of Scandinavia and also in Portugal; no material change occurring elsewhere.

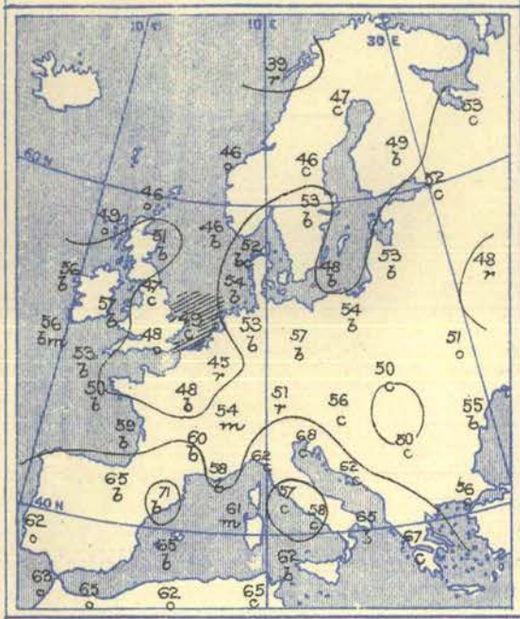
Temperature risen in most parts of western and southern Europe but fallen in Scotland and also in Scandinavia and northern Russia. Morning readings highest, 77° at Barcelona, 75° at Oporto and 72° at Bilbao and Trieste; above 60° at most of the Mediterranean, Adriatic and Spanish coast stations and also at Stockholm and Ulealborg. Lowest, 39° at Bodo, 43° at Archangel and 47° at Haparanda and Christiansund; below 50° on the north-east coasts of Great Britain. Not exceeding 55° in the latter district all day but rising to 65° and upwards in many other parts of the United Kingdom, to 70° in London and to 73° at Parsonstown. Exceeding 70° at most places in the central and southern parts of Europe and exceeding 80° at some stations in Spain and the west and south of France.

Wind varying between North and East over the greater part of our Islands, France, Spain and the Netherlands; light in force generally but fresh at some of the English Channel stations. Strong from the Northward or North-Westward on the eastern shores of the North Sea and light to moderate from the same quarters over Germany and Italy; calm or variable over Austria and the south of Russia. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards in the north of Scotland; 30·4 ins. and upwards over the White Sea; 30·1 ins. and upwards in an anticyclone covering the whole of northern and north-western Europe. Lowest, 29·9 ins. and less in three large but shallow depressions lying respectively over Portugal, over Greece and Turkey and over central Russia. Anticyclone moving slowly westwards during day; Portuguese depression spreading north-eastwards over Spain.

Thursday, 16th May.

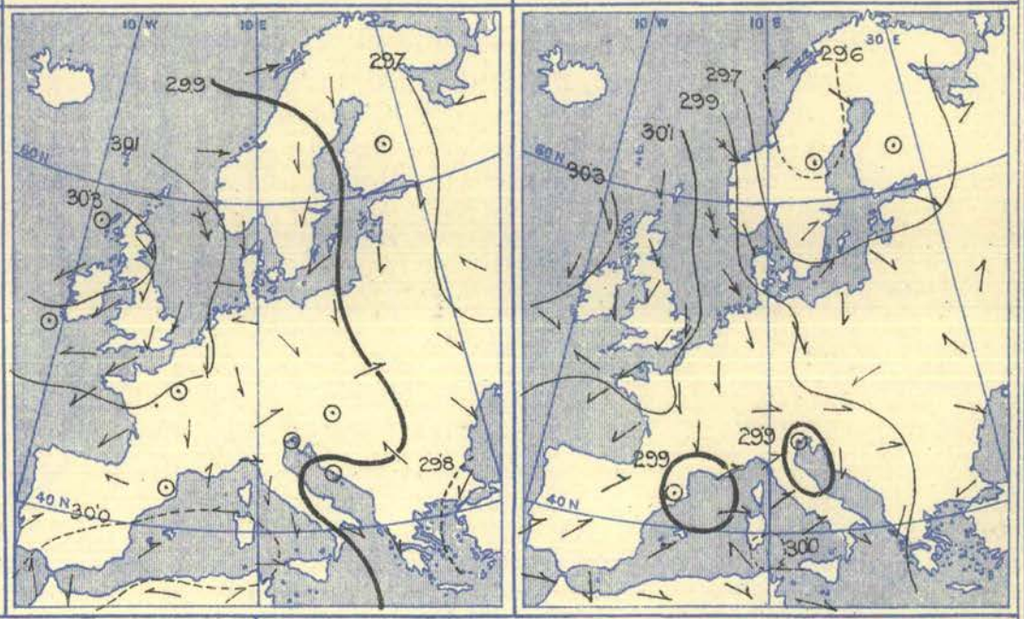
Temperature and Weather. 8 a.m.



Weather in morning still fine over Europe as a whole but cloudy or dull over eastern and central England, the Netherlands and the northern and central parts of Russia and Scandinavia; rain falling at Brussels and Munich and also at Bodö and Moscow. Slight rain falling later in the north of Scotland, and larger quantities in the north of Scandinavia and some parts of western and southern Germany, a considerable quantity reported also at Oporto. Lightning seen at Biarritz and an aurora at Wick.

Temperature fallen in most parts of western and northern Europe, changed irregularly elsewhere Morning readings highest, 75° at Bilbao, 71° at Barcelona and 68° at Trieste; above 60° in most parts of southern Europe. Lowest, (1) 39° at Bodo and 46° at Hernosand, Christiansund and Sumburgh Head; (2) 45° at Brussels; (3) 46° at Oxford. Remaining below 55° all day at many of our own north and east coast stations, but rising to 60° and upwards in many other parts of the Kingdom and to 70° at Parsonstown. Exceeding 70° over the southern parts of the Continent generally and reaching 82° at La Coubre.

Barometer and Wind. 8 a.m. and 6 p.m.

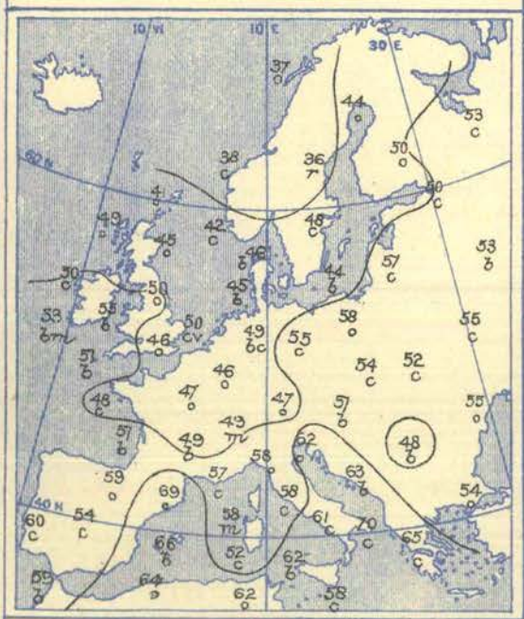


Wind light to moderate from the Northward in the northern parts of the United Kingdom, but from the North-Eastward on our southern coasts and in the north and west of France. Strong from the Westward or North-Westward on the Norwegian coasts with a gale at Skudesnaes; Northerly over Sweden, the Baltic and Germany; calm or variable over Austria and the Adriatic; North-Westerly or Westerly in Italy. Subsequently shifting to the South-Westward in Sweden; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over Scotland and the north of Ireland; 30·1 ins. and upwards in an anticyclone covering the whole of our Islands, the North Sea and the north of France. Lowest, 29·7 ins. and less in a large shallow depression over northern and central Russia; 29·8 ins. and less in a similar system over Asia Minor. Anticyclone moving slowly westwards during day; new and rather deep depression advancing over the north of Scandinavia from the northward.

Friday, 17th May.

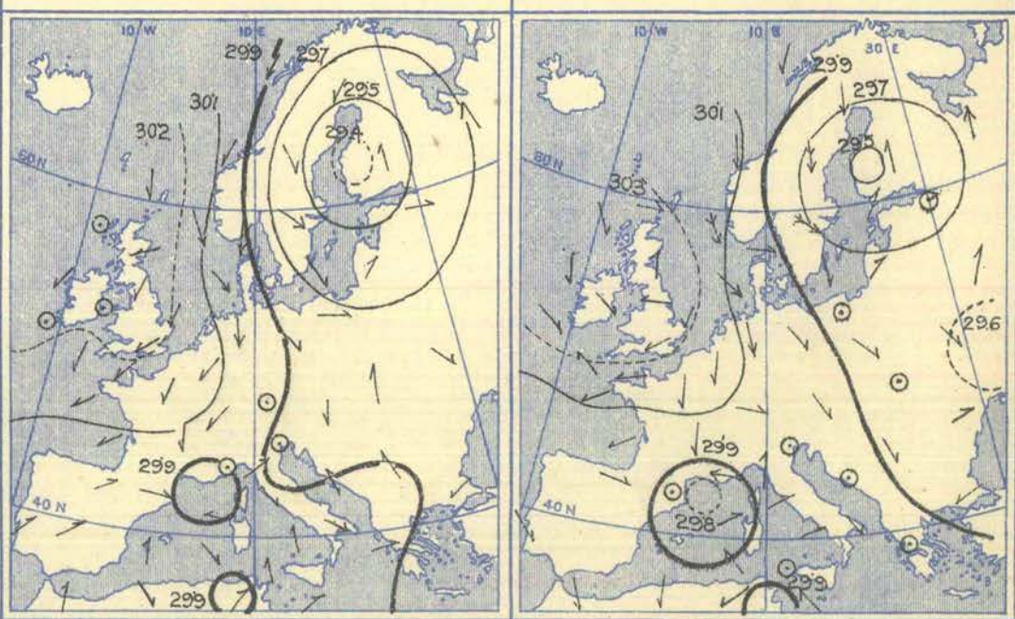
Temperature and Weather. 8 a.m.



Weather in morning fine in Ireland and Wales and also in Denmark, the south of Scandinavia and at many of the Austrian stations. Cloudy or dull in most other parts of Europe with rain at Hernösand. Sky clearing later in many parts of Great Britain. Heavy rain falling in the north of Sweden and smaller quantities in several other parts of Scandinavia, as well as in the Shetlands. Thunderstorms occurring in the south of France.

Temperature changed very little over England, fallen in most other parts of Europe, but risen in Italy, Greece and the south of Russia. Morning readings highest, 70° at Brindisi, 68° at Barcelona and 66° at Palma; above 60° at most of the Mediterranean and Adriatic stations. Lowest, 36° at Hernosand, 37° at Bodo and 38° at Christiansund; below 45° at many of the Scandinavian stations and also in the extreme north of Scotland. Remaining below 55° all day in many parts of Great Britain, but rising to 63° at Valencia (Ireland) and to 68° at Parsonstown; exceeding 70° over southern Europe generally and reaching 82° at Perpignan. Ground frost occurring over the inland parts of England at night.

Barometer and Wind. 8 a.m. and 6 p.m.

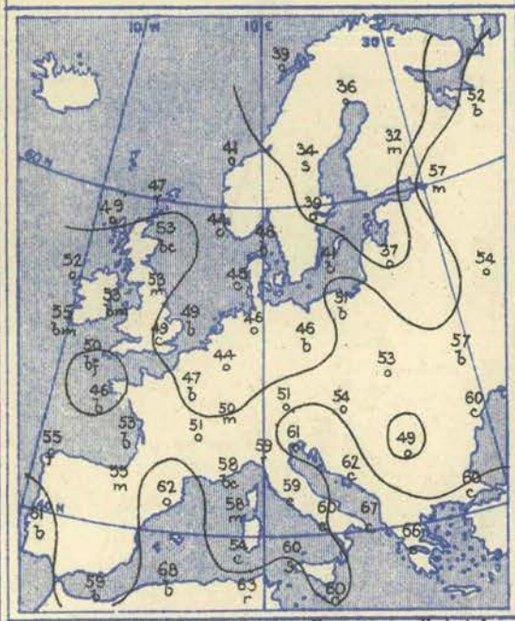


Wind light to moderate from between North and East over nearly the whole of our Islands France and the Netherlands, but westerly in the extreme south of France. Strong from the Northward or North-Westward in many parts of Scandinavia and Denmark, and moderate from the same quarters in Germany, Southerly or South-Westerly in western and central Russia. Variable over Austria, Italy and the Spanish Peninsula. Subsequently increasing to a gale in Sweden and the south of Norway; becoming very variable in Ireland and Scotland.

Barometer highest, 30·2 ins. and upwards in an anticyclone covering nearly the whole of our Islands and the neighbouring parts of the North Sea. Lowest, 29·5 ins. and less in a well marked depression with its centre over western Finland; 29·9 ins. and less in two shallow systems lying respectively off the south of France and over Tunis. Depression over Finland filling up partially during day; disturbance off the south of France being somewhat deeper.

Saturday, 18th May.

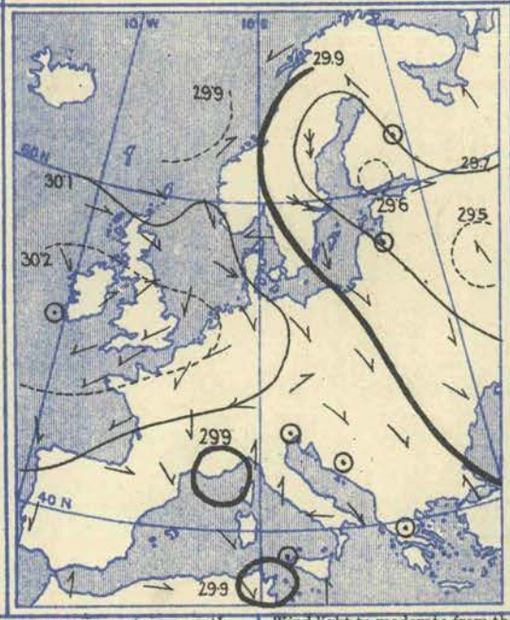
Temperature and Weather. 8 a.m.

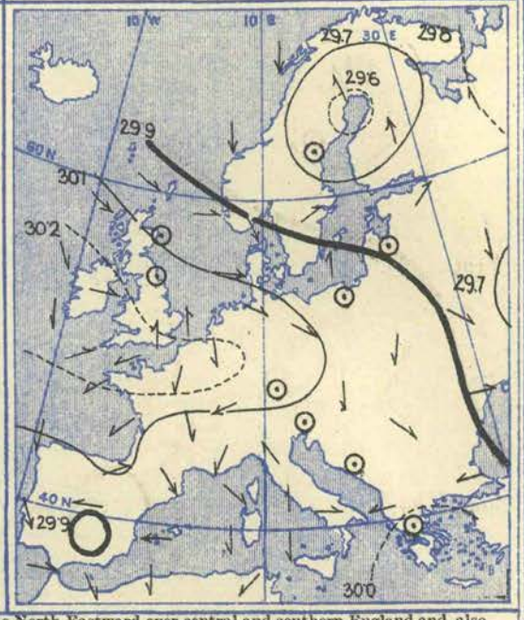


Weather in morning fine over western Europe generally but foggy on our own extreme south-west coasts and dull in Scotland, with rain in the Shetlands. Cloudy or dull in most of the northern, eastern and southern countries; rain falling at Helsingfors and also at Leghorn and snow at Hernösand. Slight rain falling later on our own extreme north and north-west coasts and larger quantities in Italy and the south of France, as well as in many parts of Russia and Scandinavia, the amount being as large as 1·2 ins. at Kharkov.

Temperature risen over western Europe generally but fallen in the eastern and central countries. Morning readings highest, 68° at Algiers, 66° at Sfax and 64° at Oporto; above 60° at most of the Mediterranean, Adriatic and Spanish coast stations; highest in our Islands 55° at Valencia. Lowest 32° at Kuopio, 34° at Hernösand and 36° at Hangö; below 40° in several parts of Scandinavia and northern Russia. Rising during day to 65° and upwards in many parts of Great Britain and to 70° at Loughborough; exceeding 70° over southern Europe generally, and reaching 79° at Brindisi.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind light to moderate from the North-Eastward over central and southern England and also over the Netherlands, western Germany and the greater part of France; Westerly or South-Westerly over the northern parts of the United Kingdom. North-Westerly over Scandinavia, Denmark, Germany, Austria and the south of Russia, and strong to a gale in force in Sweden; Southerly over the northern and central parts of Russia. Variable over Spain, Italy and the south of France. Subsequently veering to the North-Westward in Scotland and blowing strongly in the north.

Barometer highest, 30·2 ins. and upwards over Ireland, England and the neighbouring parts of the Continent. Lowest, 29·5 ins. and less in a depression over central Russia; 29·6 ins. and less in a small secondary system near the mouth of the Gulf of Finland; 29·9 ins. and less in two shallow disturbances lying respectively off the south of France and over Tunis. Russian depression subsequently travelling away to the eastward, secondary system near Gulf of Finland moving northward.

GENERAL NOTES.

During the whole of last week the weather over western Europe was influenced by a large anticyclone, the central portion of which lay at first over northern Russia. Later on the entire system moved gradually westwards and south-westwards, so that by the close of the week its central area was located over Ireland, England and the neighbouring parts of the Continent. In the north-western countries the wind was chiefly from between North and East, and the weather fine and dry, the thermometer being fairly high in the inland parts of the United Kingdom, but lower at the coast stations, and especially on the east coasts of England. As the anticyclone moved westwards a series of depressions advanced over Scandinavia and Russia from the north-westward and occasioned rain in many parts of northern Europe, the wind in the rear of the disturbances increasing to a gale from North-West or North, with colder weather, and with snow in a few places.

Over southern Europe the weather was affected by shallow depressions lying at first over Italy and afterwards over various parts of the Mediterranean. These occasioned rain in several places, with thunder and lightning in the south of France on the 14th and again on the 17th.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	67·3	+26·9	58	+23	BRIGHTON	79·1	+30·1	74	+28
STRATHPEFFER SPA	56·0	+17·0	49	+15	WORTHING	79·3	?	74	?
EDINBURGH	66·0	+28·0	59	+25	BOGNOR	78·7*	?	74*	?
MORPETH	77·6	?	70	?	WATERGATE (Emsworth)	82·2	?	77	?
NEWCASTLE-ON-TYNE	63·5	?	57	?	WESTBOURNE (Emsworth)	83·7*	+32·7	78*	+31
OSWALDKIRK (Yorkshire)	67·7	+28·7	61	+26	VENTNOR HOSPITAL	76·2	+25·0	71	+23
YORK	58·7	+17·5	53	+16	SOUTHPORT	79·9	?	72	?
LOWESTOFT	53·8	?	50	?	RHYL	91·0*	?	83*	?
HOLLESLEY BAY	70·2	?	65	?	COLWYN BAY	88·0	?	80	?
SHEFFIELD	64·6	?	59	?	ABERDOVEY	91·5*	?	88*	?
WORKSOP	69·4	+30·6	63	+28	TENBY	93·2	+43·2	86	+40
THURCASTON (Leicestershire)	71·0	+30·0	65	+27	NEWQUAY	84·9	+35·9	80	+34
MARGATE	48·1	+ 4·1	45	+ 4	TORQUAY	81·8	+31·7	77	+30
BROADSTAIRS	52·3	?	49	?	GUERNSEY	57·3*	- 1·1	55*	- 1
EASTBOURNE									

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Mar. 23rd, 1901	Tenby	—	—	—	—	—	—	—	—	—	—	—	25·5	- 8·5	30	- 10
,, ,, ,, 23rd, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	21·2	-11·3	25	- 14
,, ,, ,, 30th, ,,	Liverpool	—	—	—	—	—	—	—	—	—	—	—	37·5	?	43	?
,, ,, ,, 30th, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	43·2	?	50	?
,, ,, April 6th, ,,	Hereford	56	31	52·4	36·1	43·9	-0·6	38	17	6	0·84	+0·47	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 21.] *Third Series* WEEK ENDING SATURDAY, MAY 25TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE —The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 122.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	78	34	64·2	43·1	53·1	5 above	78	+28	0	− 5	433	+ 62	560	+ 6
	1. SCOTLAND, EAST	74	33	65·0	41·3	52·4	3 above	76	+18	2	− 2	437	− 31	654	+48
	2. ENGLAND, N.E.	69	32	59·4	43·2	50·8	1 above	62	+ 3	0	− 2	424	− 50	516	+12
	3. ENGLAND, EAST	73	36	62·1	43·6	52·3	1 above	72	− 4	0	− 2	483	−117	560	+10
	4. MIDLAND COUNTIES	72	35	66·9	41·8	53·6	2 above	82	+ 6	1	− 1	554	− 77	591	+35
	5. ENGLAND, SOUTH	74	35	66·1	45·9	55·4	3 above	94	+10	0	− 1	555	−126	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	74	35	67·4	43·6	54·8	4 above	90	+24	0	− 2	520	+ 3	470	+38
	7. ENGLAND, N.W.	72	33	65·2	44·3	54·1	2 above	85	+14	0	− 1	513	− 30	453	+46
	8. ENGLAND, S.W.	75	38	67·8	46·7	56·6	4 above	102	+29	0	− 1	618	− 45	369	+51
	9. IRELAND, NORTH	76	36	64·9	45·4	54·6	4 above	88	+20	0	− 1	534	− 60	374	+13
	10. IRELAND, SOUTH	75	40	67·7	45·8	56·1	4 above	99	+23	0	0	661	− 77	325	+63
	—CHANNEL ISLANDS	69	41	63·7	49·5	56·2	3 above	99	+15	0	0	769	− 46	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 122.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	0	—	6 less	92	0	14·8	− 4·2	72	+33	62	+29	542	+86	32	+ 5
	1. SCOTLAND, EAST	1	less than ½	5 less	78	+ 2	9·6	− 1·5	66	+25	57	+21	547	+44	32	+ 2
	2. ENGLAND, N.E.	1	1	3 less	77	+ 4	7·5	− 1·2	63	+25	55	+22	567	+82	34	+ 5
	3. ENGLAND, EAST	1	less than ½	4 less	76	+ 2	8·0	− 0·4	89	+39	80	+34	633	+24	35	+ 2
	4. MIDLAND COUNTIES	0	less than ½	5 less	70	0	9·5	− 0·2	78	+39	70	+35	554	+58	34	+ 3
	5. ENGLAND, SOUTH	0	—	4 less	66	− 3	9·1	− 1·0	85	+36	77	+32	647	+43	38	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	7 less	75	− 8	15·2	− 4·4	78	+33	69	+29	631	+111	37	+ 6
	7. ENGLAND, N.W.	0	—	5 less	73	− 1	9·4	− 2·2	80	+37	71	+31	663	+135	39	+ 8
	8. ENGLAND, S.W.	0	—	5 less	70	− 9	13·6	− 1·3	89	+38	81	+35	719	+105	43	+ 6
	9. IRELAND, NORTH	0	—	6 less	85	− 4	12·1	− 0·5	75	+33	66	+28	629	+122	37	+ 7
	10. IRELAND, SOUTH	0	—	6 less	74	− 9	13·1	− 2·4	88	+46	79	+38	691	+121	41	+ 8
	— CHANNEL ISLANDS	0	—	4 less	86	+ 4	13·0	+ 1·0	93	+37	85	+34	693	− 40	39	− 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather continued extremely fine and bright throughout the Kingdom until Saturday, when it became less settled generally and slight rain was experienced at several north-eastern and eastern stations.

Temperature was above the mean, the excess ranging from 1° in England E. and N.E., and 2° in the Midland Counties and England N.W., to 4° over Ireland and England S.W. and 5° in Scotland N. The highest of the maxima were recorded on rather irregular dates, and ranged from 78° in Scotland N., 76° in Ireland N. and 75° in Ireland S. and England S.W. to 69° in England N.E. and the Channel Islands. The lowest of the minima, which were mostly registered during the earlier half of the week, varied from 32° in England N.E. and 33° in Scotland E. and England N.W. to 38° in England S.W., 40° in Ireland S. and 41° in the Channel Islands. The diurnal range was again large at all inland stations.

Rainfall.—The weather was again rainless over the country as a whole, the only exception being the eastern and north-eastern parts of Great Britain at the close of the week.

Bright Sunshine continued unusually prevalent, the percentage of the possible duration ranging from 85 in the Channel Islands, 81 in England S.W., and 80 in England E. to 66 in Ireland N., 57 in Scotland E. and 55 in England N.E. The highest percentages at any individual stations were 89 at Jersey, 88 at Falmouth, and 87 at Guernsey, Torquay, and Hollesley Bay.

Barometer and Wind.—The distribution of pressure was again anticyclonic, the central part of the high pressure area moving from Ireland and the southern half of England to the eastward of the North Sea and finally back again to the north-west of Norway. The winds, which at first were light from the North-Westward, subsequently became Southerly and South-Easterly in the west and north and North-Easterly and Easterly in the south, but towards the end of the week the North-Easterly and Easterly breezes had extended to all parts of the Kingdom.

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II.—DATA from which the SUMMARY on page 121 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°	°	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	36	53·4	43·0	47·9	+ 2·0	41	0	0	—	- 0·42	*	*	*	*
	Stornoway	70	40	61·4	42·0	51·1	+ 3·4	64	0	0	—	- 0·55	71·7	+28·8	61	+24
	Wick	68	38	59·3	42·4	50·3	+ 2·3	58	0	0	—	- 0·41	*	*	*	*
	Lairg §	78	34	72·4	40·3	55·4	+ 7·9	101	5	0	—	- 0·49	*	*	*	*
	Glencarron §	75	43	66·8	45·2	55·4	+ 6·6	94	0	0	—	- 1·06	*	*	*	*
	Fort Augustus §	78	37	68·2	43·7	55·5	+ 5·5	95	0	0	—	- 0·48	72·5	+41·8	63	+37
	Fort William §	73	40	67·9	45·1	55·8	+ 5·3	97	0	0	—	- 0·80	88·0	+47·8	76	+41
1. SCOTLAND, E.	Nairn	74	37	65·6	41·0	52·6	+ 2·7	78	3	1	0·01	- 0·36	*	*	*	*
	Aberdeen	62	40	58·6	43·4	50·5	+ 1·4	60	0	0	—	- 0·45	70·3†	+26·6†	61†	+23†
	Braemar §	69	33	66·4	37·9	51·3	+ 4·6	82	11	0	—	- 0·50	*	*	*	*
	Ochtertyre §	76	34	71·6	39·7	54·7	+ 4·1	99	6	0	—	- 0·55	*	*	*	*
	Leith	69	41	64·3	45·0	54·1	+ 3·5	85	0	0	—	- 0·39	*	*	*	*
	Marchmont §	70	35	63·4	40·6	51·3	+ 2·6	71	4	2	0·07	- 0·47	62·5	+20·5	54	+17
2. ENGLAND, N.E.	Alnwick Castle	68	33	60·2	40·9	50·0	+ 1·4	61	3	2	0·07	- 0·40	*	*	*	*
	Durham	63	32	60·8	39·6	49·6	0·0	63	7	1	0·09	- 0·35	58·9	+19·7	52	+18
	Shields	58	40	56·1	43·7	49·5	0·0	53	0	2	0·03	- 0·35	*	*	*	*
	Scarborough ℳ	63	44	58·0	47·5	52·4	+ 2·2	73	0	1	0·07	- 0·37	70·4	?	62	?
	Spurn Head	60	45	56·0	46·9	51·2	+ 0·6	64	0	1	0·02	- 0·33	*	*	*	*
	Fulbeck (Lincolnshire)	69	37	65·2	40·6	52·2	+ 0·2	77	4	1	0·54	+ 0·11	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	66	37	62·0	42·8	51·8	0·0	69	0	1	0·12	- 0·30	78·4	+31·0	70	+27
	Yarmouth	57	44	55·3	46·6	50·7	- 0·2	61	0	0	—	- 0·40	*	*	*	*
	Geldeston	66	36	60·6	43·1	51·3	- 0·2	65	0	0	—	- 0·40	86·3	+36·3	78	+32
	Cambridge	73	36	68·7	40·7	53·9	+ 1·1	89	4	1	0·01	- 0·41	90·6	+44·5	82	+40
	Felixstowe	67	42	59·9	45·9	52·5	+ 2·0	74	0	0	—	?	95·4†	?†	86†	?†
	Rothamsted	68	40	65·9	42·4	53·5	+ 1·8	81	0	1	0·01	- 0·45	87·4	+42·8	79	+39
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	35	68·9	39·0	53·1	+ 1·4	90	8	1	0·05	- 0·40	*	*	*	*
	Loughborough	69	35	66·4	41·1	53·0	+ 0·3	81	3	1	0·16	- 0·31	*	*	*	*
	Colly Weston (Stamford)	71	38	67·1	42·6	54·1	+ 1·9	85	0	1	0·06	?	*	*	*	*
	Cheadle ℳ	68	41	64·7	43·8	53·6	+ 3·2	81	0	0	—	- 0·55	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	42	65·0	44·9	54·4	+ 2·9	87	0	0	—	- 0·53	67·7	?	61	?
	Churchstoke ℳ	69	37	66·9	39·2	52·2	+ 1·7	83	8	0	—	- 0·49	87·2	+43·0	78	+38
	Hereford (Belmont) ℳ	70	39	68·4	41·2	54·0	+ 1·1	87	2	0	—	- 0·44	*	*	*	*
	Cirencester	69	38	66·4	40·7	52·8	+ 1·3	81	4	0	—	- 0·49	87·2	+41·0	79	+37
	Oxford	70	40	68·3	43·7	55·3	+ 2·3	93	0	1	0·02	- 0·40	79·7	+34·9	72	+31
5. ENGLAND, S.	London	71	44	69·0	46·0	56·8	+ 2·3	104	0	0	—	- 0·39	79·6†	+38·0†	72†	+34†
	Swarraton (Alresford) ℳ	70	35	68·4	41·6	54·2	+ 2·9	87	1	0	—	- 0·44	*	*	*	*
	Dungeness	66	42	60·4	49·9	54·8	+ 2·1	90	0	0	—	- 0·30	86·3	?	78	?
	Hastings (St. Leonards)	68	43	64·2	46·4	54·8	+ 2·1	90	0	1	0·02	- 0·..	94·1	+41·0	86	+37
	Southampton	74	42	71·9	45·6	58·0	+ 3·8	112	0	0	—	- 0·44	83·4	+33·9	76	+30
	Portland Bill	63	45	60·7	47·7	53·8	+ 1·4	83	0	0	—	?	*	*	*	*
	Shaftesbury ℳ	70	41	67·9	44·3	55·4	+ 3·7	94	0	0	—	- 0·50	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	74	42	69·4	46·5	57·3	+ 6·3	107	0	0	—	- 0·90	*	*	*	*
	Glasgow	70	44	66·3	45·8	55·4	+ 4·9	94	0	0	—	- 0·60	70·2	+32·2	61	+28
	Glenlee §	73	35	68·7	38·0	52·4	+ 2·1	90	11	0	—	- 0·72	*	*	*	*
	Douglas (Isle of Man)	70	39	65·2	44·2	54·1	+ 3·5	85	0	0	—	- 0·52	86·6	+34·9	77	+31
7. ENGLAND, N.W.	Newton Reigny	72	33	68·4	39·1	52·9	+ 3·6	88	8	0	—	?	77·7	?	68	?
	Stonyhurst	68	41	64·4	44·3	53·8	+ 2·1	83	0	1	0·01	- 0·62	76·1	+31·9	67	+27
	Blackpool ℳ	71	39	67·4	42·5	54·2	+ 2·5	85	0	0	—	- 0·48	82·4	+37·4	73	+33
	Manchester (Prestwich)	69	42	65·2	43·5	53·7	+ 2·6	82	0	1	0·06	- 0·55	73·6	?	65	?
	Liverpool Obsy. (Bidston)	69	44	65·3	46·3	55·2	+ 2·8	92	0	0	—	- 0·45	76·6	?	68	?
	Chester (Hawarden Bridge)	72	40	67·0	42·7	54·1	+ 0·8	85	0	0	—	?	*	*	*	*
	Llandudno ℳ	69	44	63·5	47·7	55·1	+ 2·7	92	0	0	—	- 0·43	82·2	+36·4	73	+32
	Holyhead	68	45	60·4	47·9	53·8	+ 1·9	83	0	0	—	- 0·45	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	38	70·7	45·9	57·6	+ 5·3	109	0	0	—	- 0·64	*	*	*	*
	Pembroke	68	45	64·3	48·7	56·0	+ 4·6	98	0	0	—	- 0·45	88·0	+36·5	79	+32
	Clifton	71	41	? 70·0	? 44·1	? 56·3	? + 3·7	? 100	0	0	—	- 0·52	*	*	*	*
	Bath	71	43	69·9	43·9	56·1	+ 2·8	99	0	0	—	?	*	*	*	*
	Arlington (N. Devon)	71	40	67·9	44·9	55·7	+ 4·5	96	0	0	—	- 0·68	*	*	*	*
	Cullompton ℳ	75	40	71·3	44·6	57·2	+ 4·2	106	0	1	0·01	- 0·49	82·1	+36·2	75	+33
	Falmouth	64	45	61·8	50·5	55·8	+ 2·9	97	0	0	—	- 0·57	96·2	+43·2	88	+39
	Plymouth	71	44	66·4	50·7	58·1	+ 3·9	113	0	1	0·06	- 0·41	91·9	+41·9	84	+38
9. IRELAND, N.	Malin Head	63	46	59·6	48·9	53·9	+ 3·5	83	0	0	—	?	*	*	*	*
	Londonderry	76	45	67·4	46·9	56·5	+ 4·3	102	0	0	—	- 0·58	*	*	*	*
	Edenfel (Omagh)	74	40	69·4	43·6	55·7	+ 5·3	96	0	0	—	- 0·57	*	*	*	*
	Blacksod Point	69	42	64·9	47·4	55·6	+ 3·9	95	0	0	—	?	*	*	*	*
	Markree Castle	72	36	67·7	42·0	54·1	+ 3·7	85	0	0	—	- 0·60	77·1	+34·9	68	+30
	Armagh	76	41	65·4	43·5	53·8	+ 2·7	83	0	0	—	- 0·50	72·2	+30·2	64	+27
	Donaghadee	66	43	60·1	45·7	52·5	+ 1·3	74	0	0	—	- 0·50	*	*	*	*
10. IRELAND, S.	Dublin	67	47	63·9	48·2	55·6	+ 2·9	95	0	0	—	- 0·45	85·5	+37·5	76	+33
	Parsonstown	73	40	69·4	43·4	55·6	+ 3·7	95	0	0	—	- 0·53	85·8	+44·2	77	+39
	Kilkenny	71	42	68·3	44·4	55·6	+ 3·3	95	0	0	—	- 0·49	*	*	*	*
	Roche's Point	66	46	62·0	48·6	54·9	+ 1·7	90	0	0	—	- 0·66	*	*	*	*
	Valencia	73	43	67·9	46·7	56·7	+ 3·9	103	0	0	—	- 0·70	92·6	+45·4	83	+40
	Killarney	75	40	71·8	44·2	57·2	+ 4·7	106	0	0	—	- 0·68	*	*	*	*
	Foynes	73	42	70·7	45·2	57·2	+ 5·2	106	0	0	—	- 0·52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	48	61·1	49·3	54·9	+ 1·8	90	0	0	—	- 0·38	87·7	?	80	?
	Jersey	69	41	66·3	49·6	57·5	+ 3·2	109	0	0	—	- 0·43	96·6	+39·7	89	+36

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

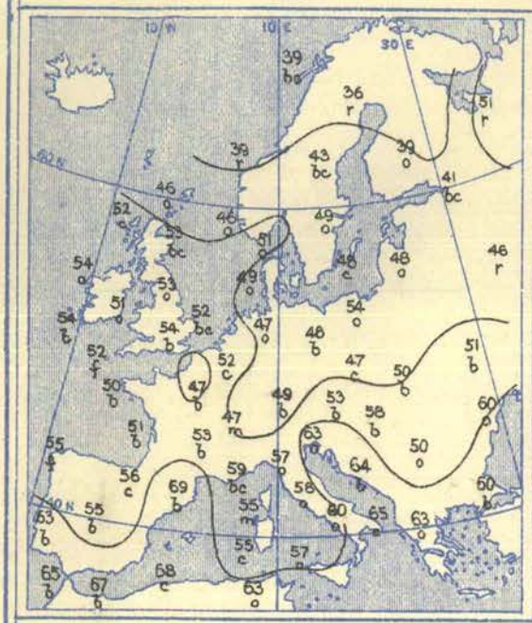
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

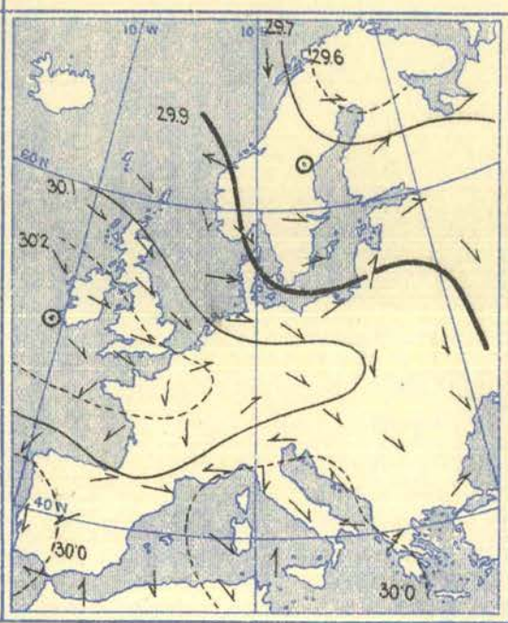
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 19th May.

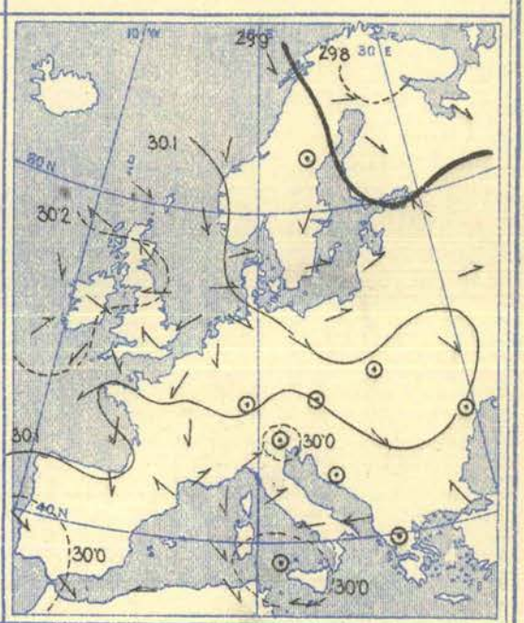
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of Europe but cloudy in many extensive districts, rainy in the far north as well as at Moscow and in some parts of Italy. Some rain later in Sweden, northern Germany and at some places in southern and south-eastern Europe, thunder and lightning locally in the south-east of France. Considerable bright sunshine at our own south-western stations.

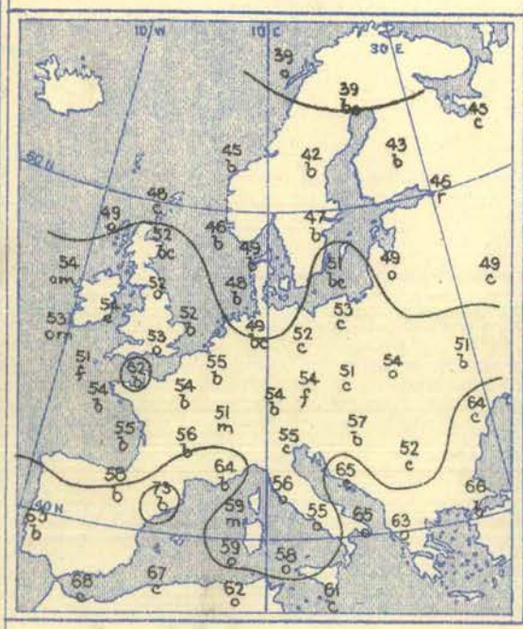
Temperature falling considerably over Russia and northern Europe, not changing much elsewhere. Morning readings ranging from 69° at Palma and Patras, 68° at Algiers and above 60° at many stations in the southern countries to 50° and more over the British Islands, and to 39° on the north-west coast of Norway, and 36° at the northern extremity of the Gulf of Bothnia—but 51° at Archangel. Rising later to 60° and more in many parts of our Islands to 71° in London, 75° at Buda Pesth, 76° at Perpignan, 82° at Brindisi and 88° at Tunis.

Wind (1) light from the North-Westward over Great Britain, moderate to strong from South-Westward over Finland and the Baltic provinces, and Westerly in north Germany, over the southern countries it was light and very variable though largely from North-Eastward. Later reports showed a decrease in the strength of the South-Westerly wind over Finland and the Baltic and increasing variability in direction over the central countries.

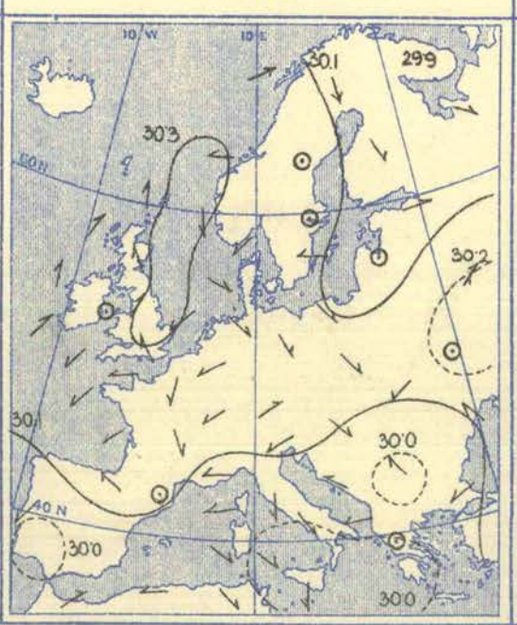
Barometer highest, 30·2 ins. and more over Ireland and the south-west of England, and exceeding 30·1 ins. over the United Kingdom generally, France and central Germany. Lowest, (1) 29·6 ins. and less over northern Europe and 29·8 ins. and less over central Europe; (2) 30·0 ins. and less over Italy, Sicily, Sardinia and Tunis, and also over Portugal and the western parts of Spain. The low pressure areas over the Continent becoming more complex later and small secondary anticyclones appearing in places.

Monday, 20th May.

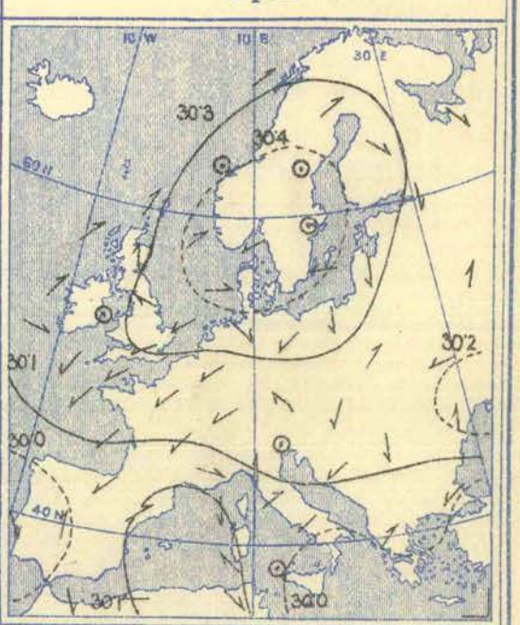
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western Europe generally, and very fine in most places, though cloudy or overcast in several places; rain falling at St. Petersburg. Rain later at Madeira and the Azores, and some in various parts of Scandinavia; thunder and lightning occurring in the southern parts of France.

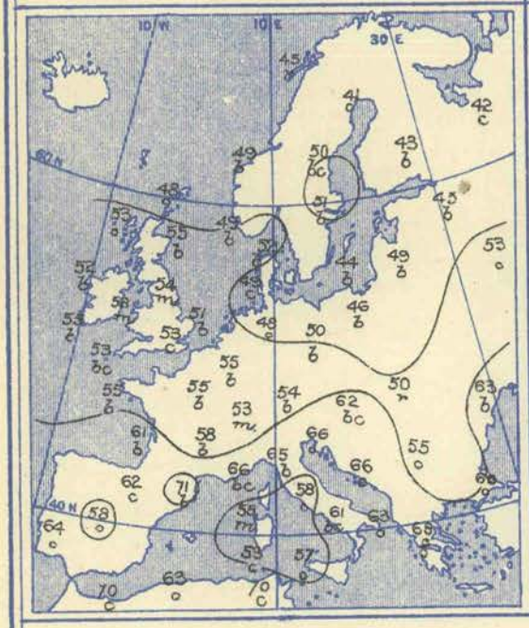
Temperature inclined to rise generally, though temporarily decreasing in a few localities. Morning readings highest, 78° at Palma, 67° at Algiers, 65° at Brindisi; 54° to 50° over Ireland and England, and above 50° all over central Europe. Lowest, 39° in Lapland, 42° at Hernosand, 43° at Kuopio, 48° at Sumburgh Head. Rising later to 70° at Parsonstown, but falling short of it over the rest of our Islands; touching 72° at Paris, 90° at Rochefort, 79° at Florence, and 84° at Madrid.

Wind strong from the Northward over Finland, light from about the same quarter over Germany, light North-Easterly over France and England, but light Southerly in Ireland and the west of Scotland. The Northerly current over Finland becoming light and variable subsequently; no decided change elsewhere. The Southerly wind in the west not spreading inland.

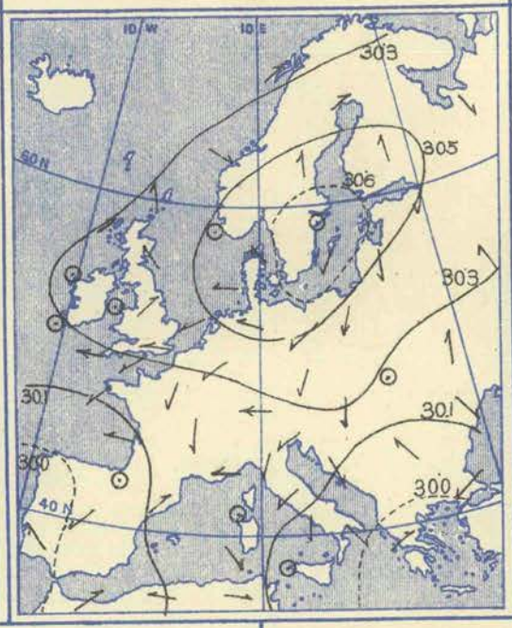
Barometer highest, 30·3 ins. and more over the west of Norway and the eastern parts of Great Britain, and exceeding 30·2 ins. over the whole of north-western Europe. Lowest, 30·0 ins. and less over the north of Russia, the southern parts of the Spanish Peninsula and the Balkan Peninsula. The northern anticyclone moving eastwards later and its intensity increasing to 30·4 ins. and more over Scandinavia. A local and very shallow depression appearing near its centre at Karlstad.

Tuesday, 21st May.

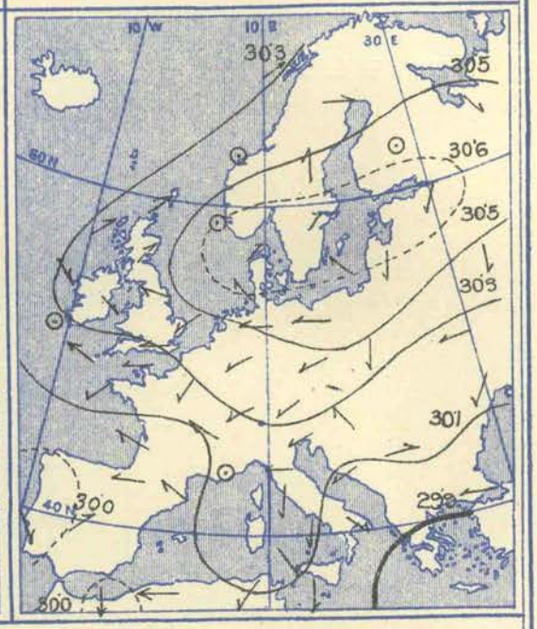
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over nearly the whole of Europe, and in most places bright and clear; dull, however, over Lapland, with rain at Bodö. Rain later in Russia and Poland, and in Madeira, the Azores, and at Biarritz, thunder and lightning in the south of France.

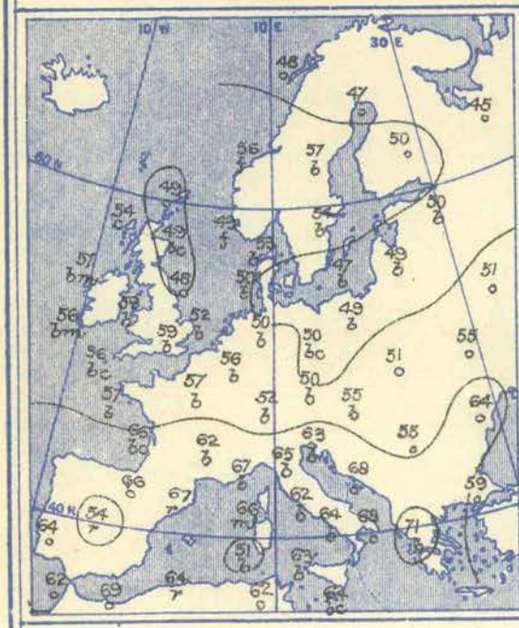
Temperature not changed much as a whole, but risen greatly in some parts of England, fallen in others. Morning readings ranging from 71° at Barcelona, 70° at La Calle, 68° at Athens, and 58° at Jersey to 41° at Haparanda, 42° at Archangel, 45° at St. Petersburg, 48° at Sumburgh Head, and 51° both at Yarmouth and Prague. Rising later to 73° at Parsonstown, 74° at Nairn, 71° at Berlin, 77° at Paris, 80° at Lyons, 90° at Rochefort.

Wind anticyclonic, South-Westerly to Southerly in the extreme north of Europe, Northerly to Easterly in the central and western countries, variable, but largely North-Westerly in the south and south-west. No decided change later beyond a decrease of force very generally.

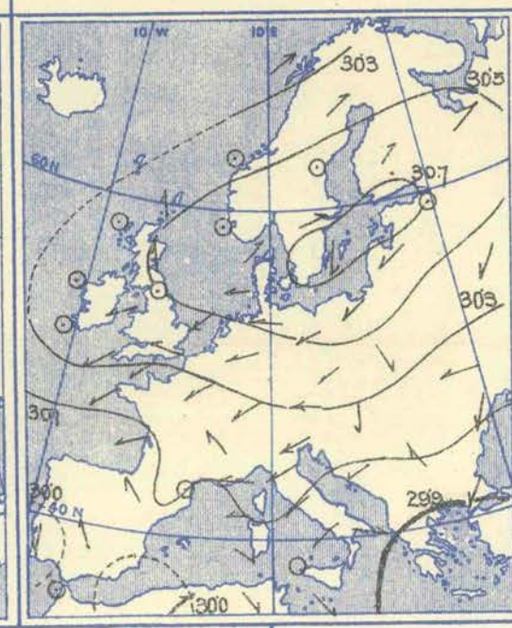
Barometer highest, 30·6 ins. and more in the south of Sweden, and exceeding 30·4 ins. over the North Sea, Germany, the Baltic, and nearly all of Scandinavia. Lowest, below 30·0 ins. over Turkey and Greece as well as in Portugal, 30·30 ins. at Valencia, Stornoway and Bodö. Falling later to 29·9 ins. in Greece, hardly changing over Portugal, rising a little in the north of Scotland and in Norway.

Wednesday, 22nd May.

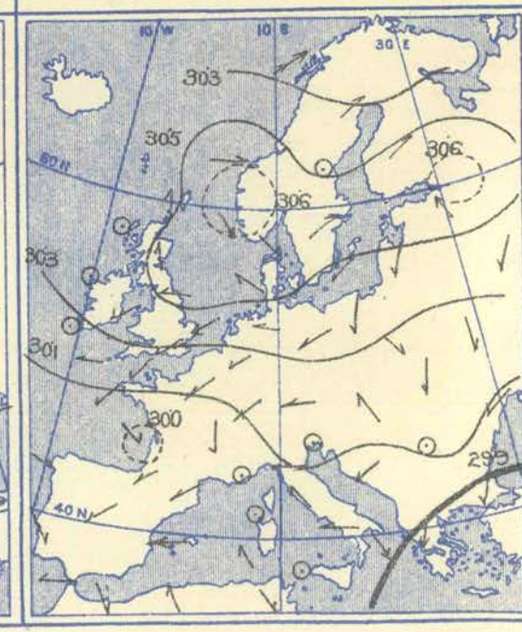
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still very fine over the greater part of Europe. Cloudy in the north of Scotland, dull and foggy in the west of Norway. Rain later in various parts of Spain, Algeria and the south of France, thunderstorm at Lyons. Much bright sunshine over the British Islands.

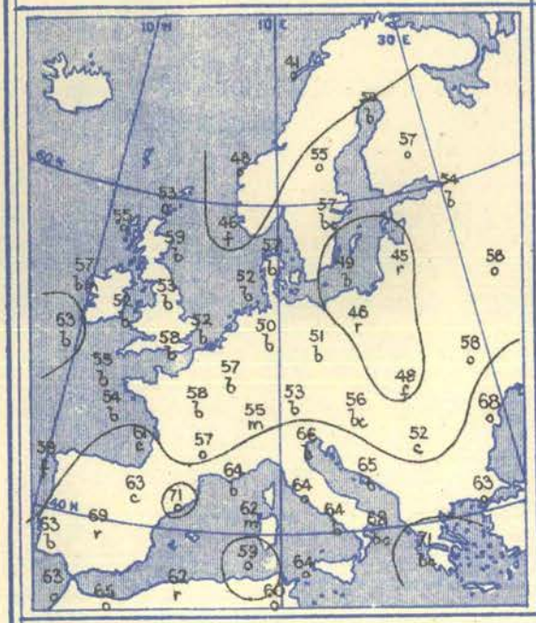
Temperature risen in the south of England, fallen in Scotland, not much change elsewhere. Morning readings highest, 71° at Patras, 69° at Oran, above 60° over the greater part of southern Europe; 59° in London and at Roche's Point and Malin Head, 57° at Nairn, Blacksod and Frankfort. Lowest, 45° at Archangel, 48° at Bodö, 49° at Sumburgh Head, 50° at Münster. Rising later to 73° at Valencia, 72° at Parsonstown, 71° at Berlin and 80° at Rochefort; not so high elsewhere.

Wind still anticyclonic—South-Westerly over Lapland, North-Easterly over central, western and southern Europe and blowing rather strongly at Bodö—very light over Russia. Veering to South-West (a gale) at Bodö later, falling calm in Ireland, little change elsewhere.

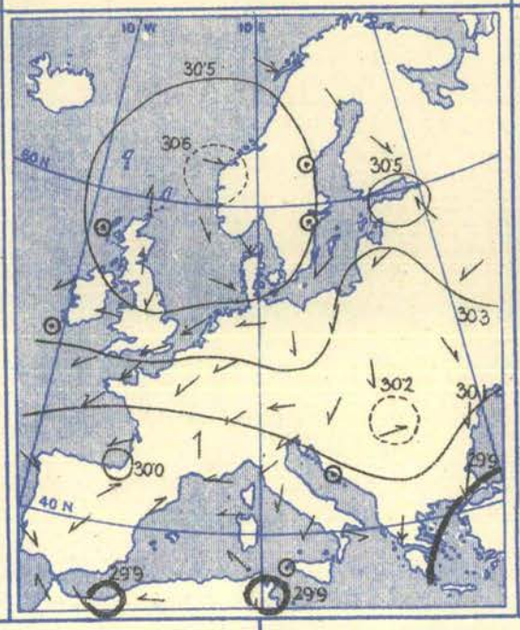
Barometer highest, 30·72 ins. at Wisby, 30·69 ins. at Copenhagen and exceeding 30·4 ins. over nearly the whole of northern Europe and the British Islands. Lowest, below 29·9 ins. in many parts of Algeria and little above 30·1 ins. in the south of France and south of Russia. Gradients very slight in the north-west. Hardly any change later but anticyclone over north-western countries inclined to move westward.

Thursday, 23rd May.

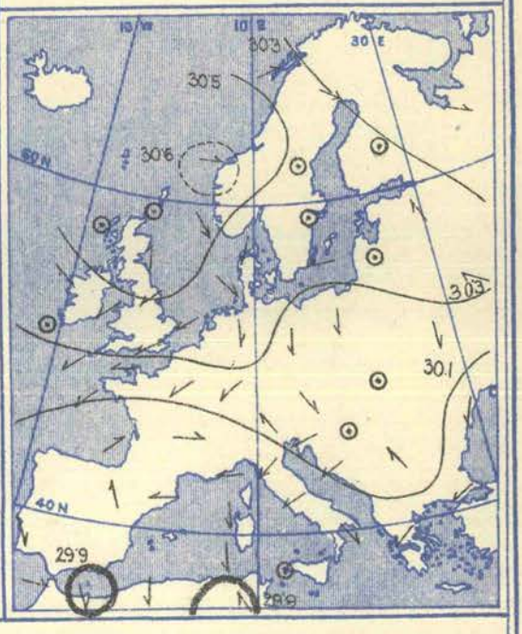
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather still dull and foggy in the west of Norway and the Hebrides, very fine over the greater part of our Islands and Continental Europe; rainy on the north coast of Africa. A good deal of rain later in Algiers and several of the southern and western parts of France, and some at Bodö, remaining fine elsewhere—brilliant in our Islands.

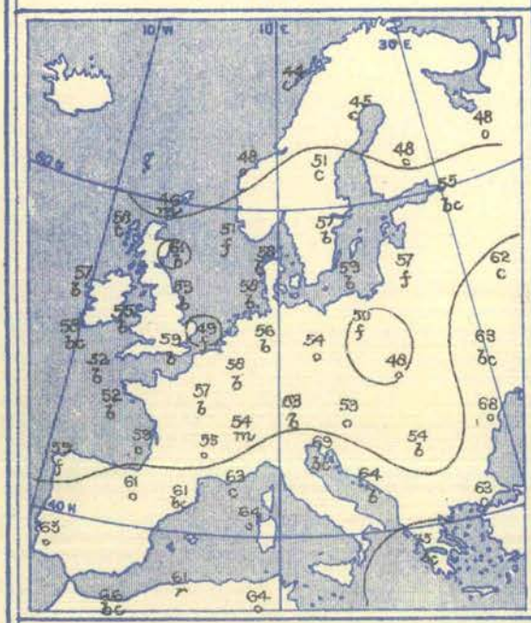
Temperature in morning highest, 71° at Athens, Barcelona and Bilbao, 69° at Madrid, 68° at Odessa, and above 60° at the Spanish and Mediterranean stations generally; 63° at Valencia, 61° at Nairn, 58° in London. Lowest, 41° at Bodö, 46° at Skudesnaes and at Neu Fahrwasser, 48° at Lemberg. Rising later to 70° or more in the west of Ireland and at Nairn, to 72° at Frankfürt, 75° at Lyons, and 84° at Rochefort.

Wind Westerly and North-Westerly in Lapland, but again Northerly over the central countries, North-Easterly to Easterly over the north of France and the south of the British Islands, Southerly in the east of Scotland; very light and variable over the Mediterranean and south of France. No decided change later in our Islands, but becoming much more variable over central Europe.

Barometer highest, 30·63 ins. at Christiansund, and exceeding 30·5 ins. almost all over Scandinavia, the North Sea, and north of our Islands. Lowest, 30·3 ins. over the White Sea, 30·0 ins. to 30·1 ins. over the southern parts of Europe—but pressure in that region rather irregularly distributed, below 29·9 ins. over Asia Minor. No important change later.

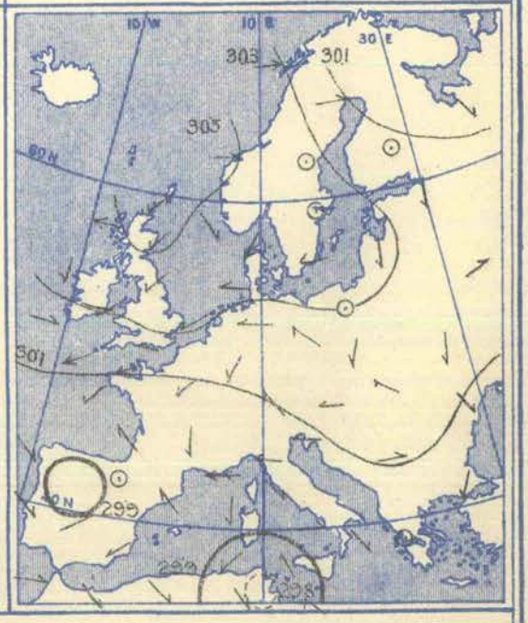
Friday, 24th May.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.

Barometer and Wind. 6 p.m.



Weather in morning dull in the north of Russia and the north of Norway, also over the south of France and Algeria, rainy at Algiers and at Limoges, dull on the northern shores of the Black Sea; very fine and bright elsewhere. Rain later at Bodö, a little at Berlin, Warsaw, and several parts of Algeria as well as in the south of France—where thunder and lightning also prevailed. A great deal of sunshine over our Islands and central Europe.

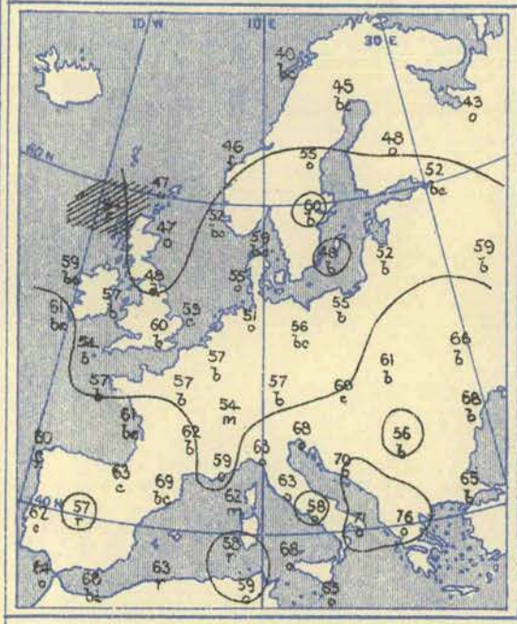
Temperature fallen a little in most parts of our Islands and Sweden, risen over central Europe. Morning readings ranging from 75° at Patras and 69° to 60° over the Mediterranean and south-eastern Europe, from 62° at Moscow and 58° in many parts of our Islands, to 44° at Bodö, and less than 50° over all the most northern countries in Europe, including the Shetland Islands. Touching 70° later at Valencia, Oxford, in London and at Berlin, 72° at Fano, 82° at Rochefort.

Wind Westerly in Lapland, Southerly at Archangel, mainly Easterly to North-Easterly over the southern countries of Europe—moderate to fresh in many places—nearly calm in Scotland. Increasing a little in force later in Scotland, shifting to North-Westward at Archangel; very little change elsewhere.

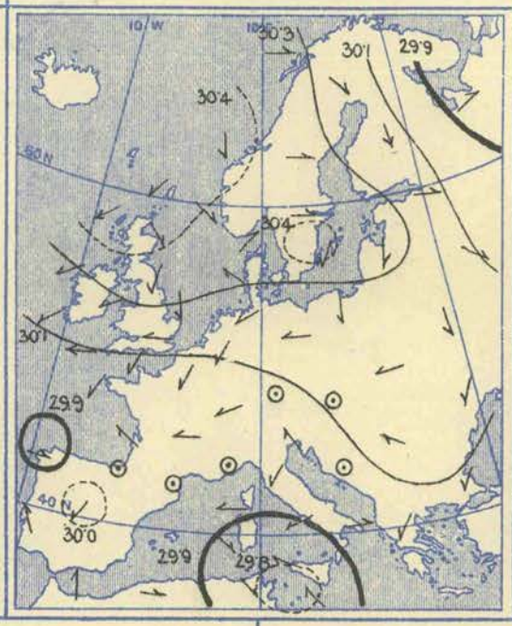
Barometer highest 30·61 ins. at Christiansund, and exceeding 30·4 ins. over the greater part of our Islands, the North Sea and Scandinavia; 30·36 ins. at Moscow. Lowest, 29·9 ins. and less in a depression over Tunis, 30·1 ins. and less over both the extreme north and extreme south of Russia and below 30·0 ins. over Portugal and the south-west of France. A further decrease later over Tunis and the Mediterranean, and a fall over Russia and the northern countries.

Saturday, 25th May.

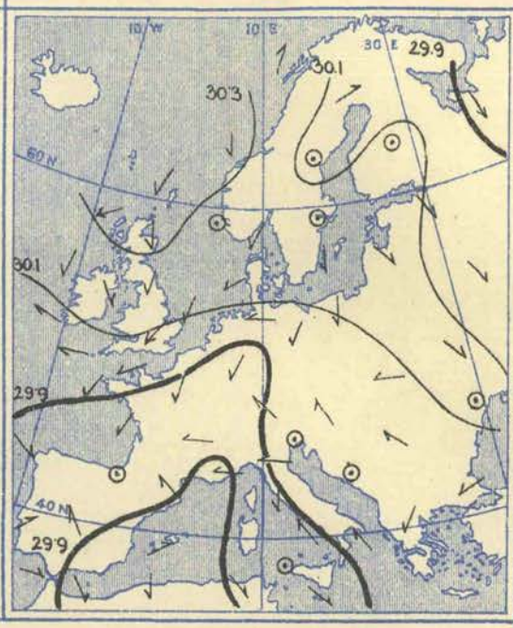
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning not so fair as of late, cloudiness increasing in several localities, but still fine and bright in many others. Rain later over Germany, the east and north of England and at Biarritz, thunder and lightning in the south of France. Much bright sunshine in the west and south of the British Islands.

Temperature fallen decidedly over Scotland and the north of England, risen over central Europe. Morning readings highest, 76° at Athens, 71° at Brindisi and between 70° and 60° over many parts of southern Europe; 61° at Valencia, 60° in London, 59° at Blacksod Point, and 60° to 50° over Germany. Lowest, 40° at Bodö, and below 50° over all the most northern parts of Europe; 48° at Wisby. Rising later to 71° at Valencia, Parsonstown and in London, to 77° at Frankfort and Brest, to 86° at Rochefort, 90° at Sanguenaires.

Wind North-Westerly to South-Westerly over northern Europe and Russia; Easterly to North-Easterly over the central and western countries, including the British Islands, very variable over the Spanish Peninsula and Algeria. Only local changes later as a whole, but backing to the Southward over Lapland.

Barometer falling except over the south of Russia. Highest, 30·4 ins. and more over Scotland and the north-west of Norway and exceeding 30·3 ins. over the north of England, the North Sea, and greater part of the Baltic and Scandinavia, 30·21 ins. at Hermannstadt. Lowest, 29·89 ins. at Archangel; 29·76 ins. at Malta; 29·89 ins. at Corunna, continuing to give way later over our Islands and indeed over Europe generally, shallow depressions appearing in many places.

GENERAL NOTES.

At the commencement of this week pressure was highest (30·2 ins. and more to 30·1 ins.) over the British Islands and north of France, lowest 29·6 ins. and less over Lapland and below 30·0 ins. over Italy on the one hand and Portugal on the other. Westerly to Northerly winds were consequently prevalent over northern Europe, Easterly to Northerly in the south, and none of them of any great strength. The western high pressure area then increased in intensity, and spread all over north-western Europe, its central area reaching the North Sea on Monday and the south of Sweden by Tuesday, about which time its maximum pressure had increased to 30·6 ins. and more. Very shallow depressions appeared over south-eastern Europe; the main currents of wind were not much altered in direction, but freshened a little in force. A Southerly breeze showed itself over our northern and north-western districts, and this was followed subsequently by a South-West to North-West wind over Lapland and northern Russia. In our Islands the brilliant and continuous sunshine raised the day temperatures greatly, though, owing to the clear skies and North-Easterly wind the nights remained rather cold. Towards the close of the week pressure began to give way very generally—the change coming on from the southward and eastward—cloudiness increased, and rain began to fall over Germany, England and Ireland.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	58·1	+17·6	48	+14	BRIGHTON	83·9	+33·8	76	+30
STRATHPEFFER SPA	70·8	+31·2	60	+26	WORTHING	90·9	?	83	?
EDINBURGH	64·6	+26·8	56	+23	BOGNOR	82·9*	?	75*	?
MORPETH	62·4	?	55	?	WATERGATE (Emsworth)	82·2	?	75	?
NEWCASTLE-ON-TYNE	48·0	?	42	?	WESTBOURNE (Emsworth	83·2*	+32·2	76*	+29
OSWALDKIRK (Yorkshire)	64·4	+24·9	57	+22	VENTNOR HOSPITAL	87·2	+36·2	79	+32
YORK	70·9	+29·4	63	+26	SOUTHPORT	84·5	?	75	?
LOWESTOFT	87·2	?	79	?	RHYL	*	?	*	?
HOLLESLEY BAY	97·0	?	87	?	COLWYN BAY	79·7	?	71	?
SHEFFIELD	65·1	?	58	?	ABERDOVEY	84·9*	?	76*	?
WORKSOP	75·6	+36·6	68	+33	TENBY	91·3	+40·2	82	+35
THURCASTON (Leicestershire)	79·8	+38·2	71	+33	NEWQUAY	79·6	+29·2	73	+27
MARGATE	82·4	+38·3	75	+35	TORQUAY	95·0	+33·0	87	+39
BROADSTAIRS	83·7	?	76	?	GUERNSEY	93·6*	+34·6	87*	+32
EASTBOURNE									

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Mar. 30th, 1901	Rhyl	—	—	—	—	—	—	—	—	—	—	—	43·2	?	50	?
,, ,, April 6th, ,,	Hereford	56	31	52·4	36·1	43·9	-0·6	38	17	6	0·84	+0·47	—	—	—	—
,, ,, ,, ,, ,,	Killarney	55	32	51·1	37·6	44·0	-2·2	32	12	7	2·74	+1·94	—	—	—	—
,, ,, ,, ,, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	30·6	- 5·9	34	- 7
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	25·9	-11·1	29	- 12

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W ; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 22.] *Third Series* WEEK ENDING SATURDAY, JUNE 1ST, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE — The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 128.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	40	60·5	46·4	53·0	3 above	77	+20	0	- 4	510	+ 82	560	+ 2
	1. SCOTLAND, EAST	67*	34	59·9	46·1	52·6	2 above	74	+ 7	0	- 3	511	- 24	654	+45
	2. ENGLAND, N.E.	78	45	63·9	49·9	56·5	5 above	102	+34	0	- 2	526	- 16	516	+10
	3. ENGLAND, EAST	85	42	68·9	50·5	59·1	6 above	120	+34	0	- 1	603	- 83	560	+ 9
	4. MIDLAND COUNTIES	83	38	67·7	49·0	57·8	5 above	111	+24	0	- 2	665	- 53	591	+33
	5. ENGLAND, SOUTH	83	34	65·4	50·0	57·3	3 above	107	+13	0	0	662	-113	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	39	62·0	49·4	55·3	3 above	93	+18	0	- 1	613	+ 21	470	+37
	7. ENGLAND, N.W.	76	44	63·6	50·6	56·7	4 above	103	+21	0	- 1	616	- 9	453	+45
	8. ENGLAND, S.W.	77	40	64·1	50·2	56·7	3 above	103	+18	0	0	721	- 27	369	+51
	9. IRELAND, NORTH	74	40	61·7	48·7	54·8	3 above	90	+12	0	- 1	624	- 48	374	+12
	10. IRELAND, SOUTH	71	42	61·5	49·5	55·1	1 above	92	+ 6	0	0	753	- 71	325	+63
	—CHANNEL ISLANDS	74	48	64·3	52·3	57·9	3 above	111	+17	0	0	880	- 29	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 128.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	9	2 more	96	+ 1	15·7	- 3·9	36	- 2	30	- 2	578	+84	32	+ 5
	1. SCOTLAND, EAST	6	12	7 more	84	+ 5	10·8	- 0·7	37	- 4	31	- 4	584	+41	32	+ 2
	2. ENGLAND, N.E.	4	11	6 more	81	+ 5	8·6	- 0·5	43	- 1	37	- 2	610	+81	34	+ 4
	3. ENGLAND, EAST	3	4	0 (average)	79	+ 2	8·4	- 0·5	52	+ 5	46	+ 4	685	+29	36	+ 2
	4. MIDLAND COUNTIES	3	5	0 (average)	73	0	10·0	- 0·2	47	+ 4	42	+ 4	601	+62	35	+ 4
	5. ENGLAND, SOUTH	3	5	1 more	69	- 3	9·6	- 0·9	54	+ 4	48	+ 4	702†	+47	38	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	15	8 more	81	- 5	16·7	- 3·6	33	-12	29	-10	664	+100	37	+ 6
	7. ENGLAND, N.W.	5	8	2 more	78	0	10·2	- 1·9	39	- 9	34	- 8	702	+126	38	+ 7
	8. ENGLAND, S.W.	2	5	0 (average)	72	-10	14·1	- 1·4	44	- 7	40	- 6	763	+ 98	43	+ 6
	9. IRELAND, NORTH	6	12	7 more	91	- 1	13·3	+ 0·1	27	-14	24	-12	656	+107	36	+ 6
	10. IRELAND, SOUTH	5	10	4 more	79	- 7	14·1	- 2·0	28	-17	25	-15	719	+103	40	+ 6
	— CHANNEL ISLANDS	4	4	0 (average)	90	+ 5	13·4	+ 1·0	56	+ 1	51	0	749	- 39	40	- 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was rather dull and rainy in all the western and northern parts of the Kingdom, while in the east and south, although rain was occasionally experienced during the latter half of the week, the conditions remained mostly fair and bright. Thunderstorms occurred in many parts of Great Britain, and were very severe over eastern England.

Temperature continued above the mean, the excess ranging from 1° in Ireland S., and 2° in Scotland E., to 5° in England N.E. and the Midland Counties, and to 6° in England E. The highest of the maxima, which were registered on the 29th over Great Britain, and on irregular dates in Ireland, ranged from 85° in England E., 83° in England S., and the Midland Counties, and from 78° in England N.E., and 77° in England S.W., to 69° in Scotland W., and to 67° in Scotland E. The lowest of the minima were recorded, as a rule, on the 27th, and varied from 34° in Scotland E., and England S., to 45° in England N.E. and to 48° in the Channel Islands.

Rainfall exceeded the mean in most districts, but only just equalled it over eastern, central, and south-western England, and in the Channel Islands. In Scotland E. and W., and in Ireland N. the excess was large. The fall at some north-eastern stations on Sunday was very heavy; at North Shields the amount collected in the gauge was 1·40 ins., and at Alnwick Castle 2·15 ins.

Bright Sunshine was deficient, except over southern, central, and eastern England, and in the Channel Islands. The percentage of the possible duration varied from 51 in the Channel Islands, 48 in England S., and 46 in England E., to 30 in Scotland N., 29 in Scotland W., and to 25 or 24 over Ireland.

Barometer and Wind.—At the commencement of the week an anticyclone lay to the northward of our Islands while a shallow cyclonic system extended over the southern half of the North Sea from the Netherlands. During Monday and Tuesday the distribution of pressure was in a transitory state, and the North-Easterly and Easterly breezes had given place to light airs, mainly from South or South-East. By Wednesday a depression had reached our western coasts from the Atlantic, and from this time until the close of the week depressions travelling northwards continued to spread over the Kingdom from the westward, causing a strong breeze or moderate South-Westerly or Southerly gale in the extreme west and north-west, and a whole gale (temporarily) in the north-west of Ireland on Friday. In other parts of the country the South-Westerly current was moderate or fresh in force.

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* ERRATUM.—The corresponding value in last week's Report should read "76."

† This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 127 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	41	54·6	43·9	48·9	+ 1·9	48	0	3	0·17	- 0·25	*	*	*	*
	Stornoway	65	42	61·7	46·1	53·4	+ 4·2	80	0	4	0·66	+ 0·10	58·3	+15·4	49	+13
	Wick	64	43	56·9	45·6	50·9	+ 1·7	62	0	3	0·61	+ 0·20	*	*	*	*
	Lairg Ⓢ	68	42	62·9	46·3	54·1	+ 4·8	85	0	5	0·46	- 0·04	*	*	*	*
	Glencarron Ⓢ	71	40	64·2	46·0	54·6	+ 4·4	88	0	4	1·02	- 0·07	*	*	*	*
	Fort Augustus Ⓢ	65	42	60·2	48·1	53·8	+ 2·4	83	0	6	1·14	+ 0·66	*26·5	- 4·0	22	- 4
	Fort William Ⓢ	68	42	63·3	48·5	55·5	+ 3·7	95	0	6	1·86	+ 1·03	36·4	- 4·1	31	- 3
1. SCOTLAND, E.	Nairn	67	34	59·9	44·1	51·5	+ 0·1	67	0	6	0·36	- 0·02	*	*	*	*
	Aberdeen	63	45	58·4	47·3	52·5	+ 2·0	74	0	5	0·99	+ 0·55	44·6	+0·9	37	0
	Braemar Ⓢ	64	40	60·1	45·9	52·6	+ 4·3	74	0	7	1·28	+ 0·78	*	*	*	*
	Ochtertyre Ⓢ												*	*	*	*
	Leith	67	43	61·0	48·1	54·2	+ 2·0	85	0	6	1·61	+ 1·21	*	*	*	*
	Marchmont Ⓢ	67	42	60·0	45·3	52·2	+ 2·2	71	0	5	1·63	+ 1·08	35·5	-6·3	30	- 6
2. ENGLAND, N.E.	Alnwick Castle	69	45	63·1	47·5	54·8	+ 4·7	90	0	5	2·41	+ 1·95	*	*	*	*
	Durham	66	46	62·4	48·7	55·1	+ 3·5	92	0	6	1·03	+ 0·58	37·4	- 1·8	32	- 2
	Shields	68	46	62·7	49·1	55·5	+ 4·7	95	0	5	1·80	+ 1·40	*	*	*	*
	Scarborough Ⓜ	68	45	62·4	51·5	56·6	+ 4·9	102	0	3	0·34	- 0·11	57·5	?	50	?
	Spurn Head	70	48	65·3	51·9	58·2	+ 6·2	113	0	1	0·35	0·00	*	*	*	*
	Fulbeck (Lincolnshire)	78	46	67·4	50·6	58·5	+ 5·0	116	0	3	0·36	- 0·08	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	81	48	71·7	51·6	61·0	+ 7·5	133	0	2	0·90	+ 0·46	47·0	+ 0·5	42	0
	Yarmouth	69	46	63·3	51·1	56·8	+ 4·1	104	0	5	0·21	- 0·21	*	*	*	*
	Geldeston	76	46	70·6	50·1	59·7	+ 6·7	124	0	4	0·17	- 0·23	50·5	+ 0·9	45	0
	Cambridge	85	44	73·4	49·9	61.0	+ 6·6	133	0	2	0·43	- 0·01	54·2	+ 8·1	48	+ 7
	Felixstowe	67	43	65·1	51·6	58·0	+ 6·0	112	0	3	0·18	?	58·6†	?†	52†	?†
	Rothamsted	79	42	69·2	48·4	58·2	+ 5·0	113	0	2	0·49	+ 0·02	54·7	+10·1	49	+ 9
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	40	70·1	47·6	58·2	+ 4·9	113	0	3	0·32	- 0·15	*	*	*	*
	Loughborough	81	42	69·9	49·9	59·3	+ 5·0	121	0	4	0·28	- 0·19	*	*	*	*
	Colly Weston (Stamford)	83	46	70·3	50·3	59·7	+ 5·9	124	0	2	0·68	?	*	*	*	*
	Cheadle Ⓜ	74	45	65·5	49·3	56·9	+ 5·3	104	0	3	0·54	- 0·04	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	77	45	66·2	50·0	57·6	+ 4·6	109	0	3	0·47	- 0·08	46·3	?	41	?
	Churchstoke Ⓜ	75	41	65·4	48·4	56·4	+ 4·4	101	0	4	0·93	+ 0·43	41·6	- 2·7	37	- 2
	Hereford (Belmont) Ⓜ	77	39	66·8	49·0	57·4	+ 2·9	108	0	4	0·36	- 0·08	*	*	*	*
	Cirencester	79	38	66·6	47·0	56·2	+ 3·1	99	0	2	0·45	- 0·05	47·8	+ 1·6	43	+ 1
	Oxford	79	39	68·7	49·4	58·5	+ 4·0	116	0	2	0·20	- 0·24	53·9	+ 8·9	48	+ 8
5. ENGLAND, S.	London	83	43	71·4	50·9	60·5	+ 4·6	130	0	3	0·14	- 0·28	46·0†	+ 4·3†	41†	+ 3†
	Swarraton (Alresford) Ⓜ	78	34	67·6	46·2	56·3	+ 3·6	100	0	3	0·92	+ 0·47	*	*	*	*
	Dungeness	70	42	62·9	50·7	56·4	+ 2·4	101	0	2	0·13	- 0·17	57·0	?	51	?
	Hastings (St. Leonards)	72	47	63·5	51·8	57·3	+ 3·2	107	0	4	0·36	- 0·01	57·0	+ 3·8	51	+ 3
	Southampton	78	43	68·9	50·2	59·0	+ 3·2	119	0	2	1·11	+ 0·68	52·1	+ 2·4	47	+ 2
	Portland Bill	65	47	59·6	50·4	54·7	+ 1·0	89	0	3	0·47	?	*	*	*	*
	Shaftesbury Ⓜ	75	45	63·9	50·1	56·6	+ 3·5	102	0	3	0·42	- 0·08	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	68	43	64·4	49·7	56 6	+ 4·3	102	0	6	2·11	+ 1·22	*	*	*	*
	Glasgow	67	45	62·0	48·8	55·0	+ 3·0	91	0	6	1·20	+ 0·60	27·6	-10·2	24	- 8
	Glenlee Ⓢ	69	39	62·9	48·8	55·4	+ 3·7	94	0	6	1·21	+ 0 51	*	*	*	*
	Douglas (Isle of Man)	65	47	58·7	50·1	54·1	+ 2·2	85	0	6	1·28	+ 0 77	37·4	-13·9	33	-12
7. ENGLAND, N.W.	Newton Reigny	70	45	62·4	49·4	55·5	+ 4·8	95	0	7	1·15	?	36·7	?	32	?
	Stonyhurst	69	47	63·8	50·5	56·8	+ 4·3	104	0	5	0·37	- 0·30	33·6	-10·7	29	-10
	Blackpool Ⓜ	72	44	64·6	50·5	57·1	+ 3·9	106	0	6	1·24	+ 0·76	37·4	- 7·6	33	- 6
	Manchester (Prestwich)															
	Liverpool Obsy. (Bidston)	75	48	65·6	51·3	58·0	+ 4·3	112	0	5	0·78	+ 0·34	34·8	?	31	?
	Chester (Hawarden Bridge)	76	46	? 66·6	51·1	? 58·4	? + 3·8	? 115	0	?4	0·31	?	*	*	*	*
	Llandudno Ⓜ	69	48	62·9	51·2	56·7	+ 3·0	103	0	5	0·80	+ 0·37	37·9	- 7·9	34	- 7
	Holyhead	68	47	59·6	50·0	54·5	+ 1·3	88	0	5	0·59	+ 0·16	*	*	*	*
8. ENGLAND, S.W.	Llandovery												*	*	*	*
	Pembroke	59	49	57·1	51·3	54·0	+ 1·3	84	0	3	0·45	0·00	38·7	-13·7	35	-12
	Clifton	77	47	68·5	52·0	59·7	+ 5·6	124	0	3	0·43	- 0·09	*	*	*	*
	Bath	77	40	67·0	49·0	57·5	+ 2·8	109	0	2	0·37	?	*	*	*	*
	Arlington (N. Devon)	74	41	65·6	48·3	56·4	+ 3·9	101	0	2	0·58	- 0·08	*	*	*	*
	Cullompton Ⓜ	74	40	67·0	48·7	57·3	+ 2·8	107	0	2	0·53	+ 0·03	43 1	- 3·1	39	- 3
	Falmouth	65	49	61·7	50·9	56·0	+ 1·7	98	0	2	0·53	- 0·03	43·9	- 9·5	40	- 9
	Plymouth	71	47	61·5	51·1	56·0	+ 0·5	98	0	3	0·89	+ 0·42	43·6	- 6·5	40	- 5
9. IRELAND, N.	Malin Head	63	46	59·7	49·4	54·2	+ 2·5	85	0	5	0·99	?	*	*	*	*
	Londonderry	74	45	65·2	49·0	56·6	+ 3·1	102	0	7	1·12	+ 0·53	*	*	*	*
	Edenfel (Omagh)	67	44	63·6	48·3	55·5	+ 3·8	95	0	7	1·09	+ 0·50	*	*	*	*
	Blacksod Point	65	44	59·7	49·6	54·4	+ 1·7	87	0	5	1·45	?	*	*	*	*
	Markree Castle	65	40	62·9	47·3	54·6	+ 3·1	88	0	6	1·67	+ 1·02	29·5	-11·7	26	-10
	Armagh	64	44	61·3	48·3	54·4	+ 1·9	87	0	7	1·20	+ 0·70	24·5	-17·0	21	-15
	Donaghadee	63	46	59·4	48·7	53·7	+ 1·5	82	0	6	1·12	+ 0·62	*	*	*	*
10. IRELAND, S.	Dublin	67	49	62·4	51·9	56·8	+ 2·5	104	0	6	0·74	+ 0·28	28·1	-19·4	25	-17
	Parsonstown	66	44	61·6	48·3	54·6	+ 1·2	88	0	7	1·03	+ 0·49	21·4	-19·6	19	-18
	Kilkenny	64	43	60·6	48·7	54·3	+ 0·8	86	0	7	0·99	+ 0·49	*	*	*	*
	Roche's Point	61	48	58·9	51·6	55·0	+ 0·5	91	0	4	0·67	0·00	*	*	*	*
	Valencia	71	45	61·4	49·3	55·0	+ 1·1	91	0	5	1·88	+ 1·14	35·0	-12·0	31	-11
	Killarney	?	43	?	49·5					3	0·96	+ 0·29	*	*	*	*
	Foynes	66	42	64·1	46·9	55·0	+ 1·7	91	0	6	0·75	+ 0·20	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	50	61·6	51·6	56·3	+ 1·8	100	0	3	0·40	0·00	49·1	?	45	?
	Jersey	74	48	66·9	52·9	59·5	+ 3·9	123	0	5	0·45	+ 0·01	55·8	- 1·4	51	- 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

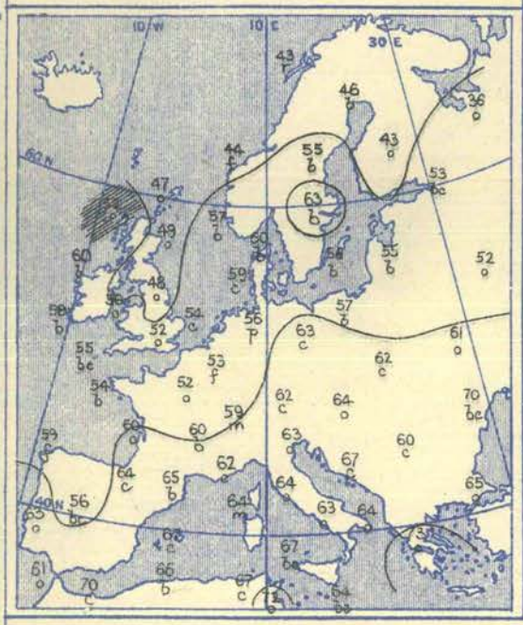
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

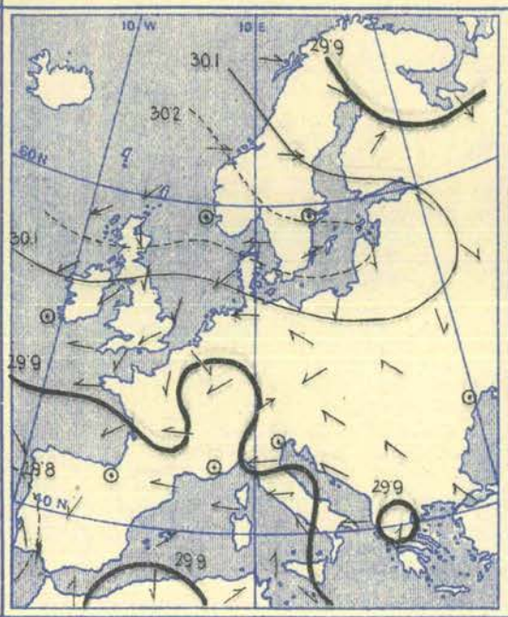
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 26th May.

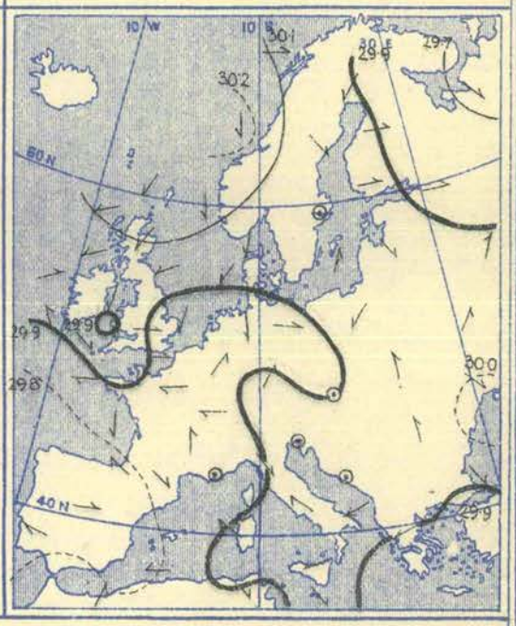
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Ireland, the north-west of France and most parts of Scandinavia, but dull elsewhere with rain at Frankfürt and Tunis. Rain falling later in many parts of the United Kingdom, and at a few of the Continental stations, the amounts measured at Shields and Fanö being very large. Thunderstorms reported from some of the southern French stations.

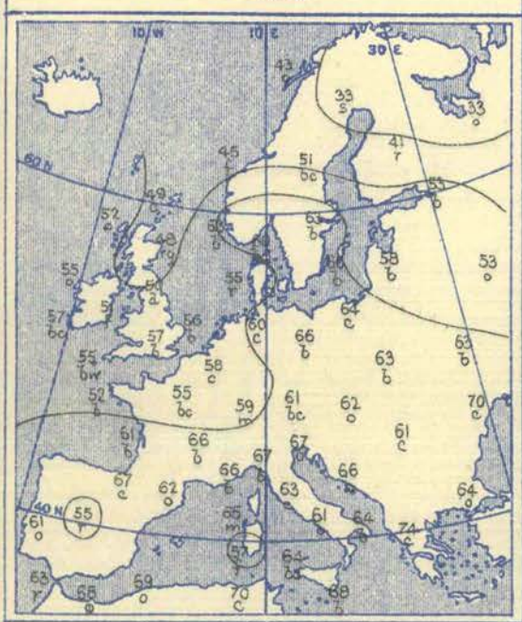
Temperature fallen over England, but risen a little on the Continent. Morning readings highest, 73° at Athens, 72° at Sfax, 71° at Patras, 70° at Odessa and Barcelona; and above 60° over central and southern Europe generally. Lowest, 36° at Archangel, 43° at Kuopio and Bodö, 44° at Christiansund, and 47° at Sumburgh Head and Wick. Rising later to 71° at Valencia (Ireland), to 75° at several of the Algerian stations, 79° at Berlin, 77° at Lyons, and 81° at Buda Pesth and Hermannstadt.

Wind Westerly to North-Westerly over northern Europe, North-Easterly to Northerly over our Islands, the North Sea and the north of France, and though moderate generally blew strongly in a few places. Light Northerly breezes prevailed in Russia, but over France and southern Europe generally it was very variable in direction. Backing to the Southward later in the south of Ireland, but no material change taking place elsewhere.

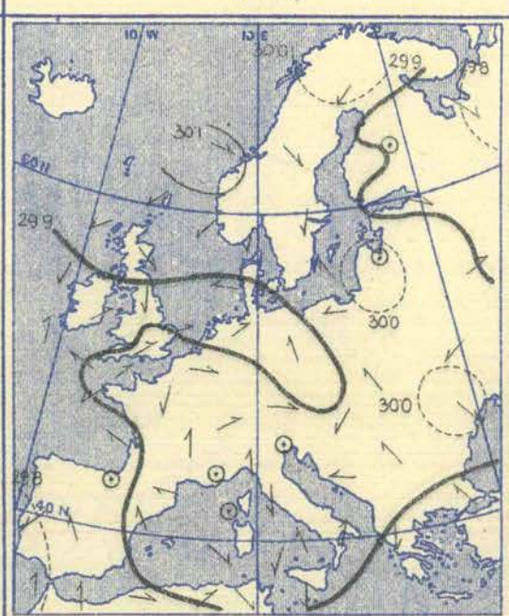
Barometer falling all over our Islands and the greater part of the Continent. Highest, 30·2 ins. and more over the north of Scotland, the south of Scandinavia and the Baltic. Lowest, over northern Russia, and also in shallow areas over Germany, Spain and the Mediterranean. No great change later, but barometer continuing to fall very generally.

Monday, 27th May.

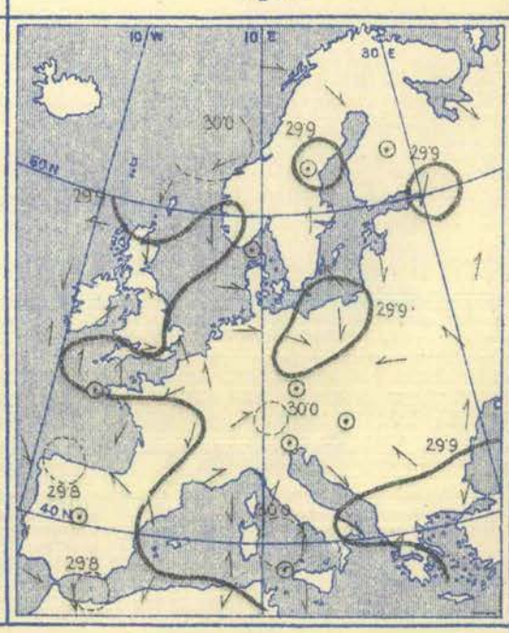
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy at most of the Irish and Scotch stations and on the west coast of Denmark, rain also falling over central and southern Spain and snow at Haparanda, fine and bright in most other places. Rain falling later at many of our own northern and western stations, the eastward of the North Sea, and northern Germany, and thunderstorms occurring over southern France and Algeria.

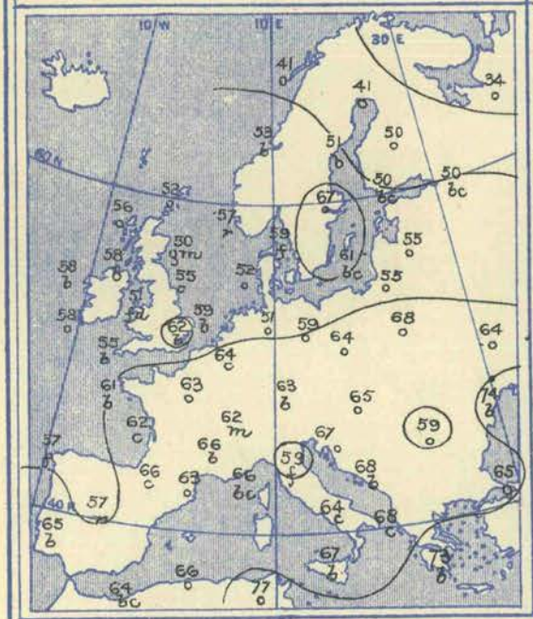
Temperature fallen a little over Ireland and Scotland, but risen somewhat over England and the Continent generally. Morning readings highest, 74° at Patras, 70° at Barcelona, Odessa and La Calle, 69° at Algiers and 68° at Malta. Lowest, 33° at Archangel and Haparanda, 39° at Ulealborg, 41° at Kuopio, 45° at Christiansund, and 45° at Wick. Rising later to 74° in London and at Brussels, 79° at several of the German stations, above 80° over southern and western France, and also in Algeria.

Wind North-Westerly to Northerly over northern Europe, North-Easterly and Easterly in the north of our Islands, but South-Westerly and Southerly over England, and the south of Ireland; exceedingly variable over the Continent and light in force. Very little change later.

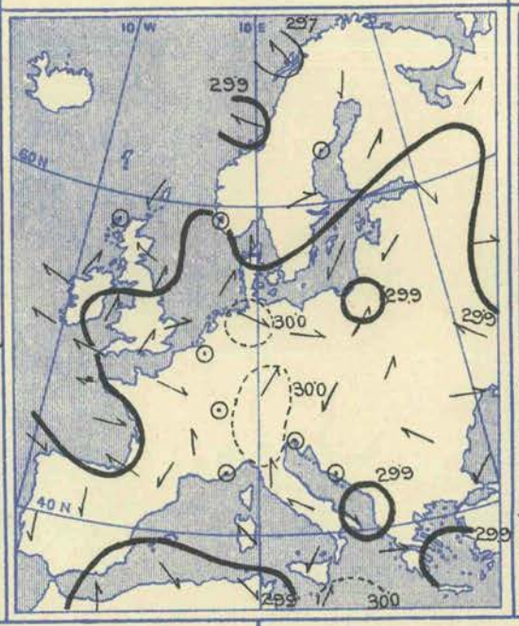
Barometer falling all over our Islands and the west of Norway, but rising at most of the Continental stations, and distribution becoming very complex. Highest, 30·1 ins. and more in a small anticyclone off the north-west coast of Norway. Lowest, 29·8 ins. and less in two shallow depressions lying respectively over northern Russia and the south-western part of the Spanish Peninsula. No important change later, beyond a rise of the barometer at the English stations.

Tuesday, 28th May.

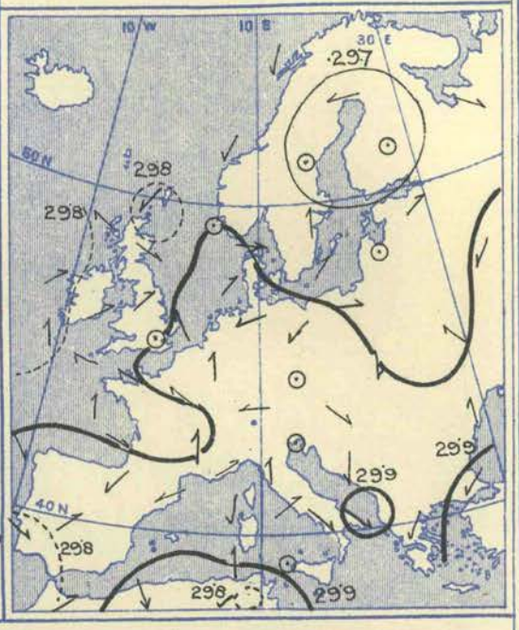
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over England and the neighbouring parts of the Continent as well as in Sweden and the central and southern parts of Russia. Cloudy or dull in most other parts of Europe with rain at Parsonstown, and also at Skudesnaes, Memel and Madrid. Slight rain falling later at most of our own western and northern stations; thunderstorms occurring in Algeria.

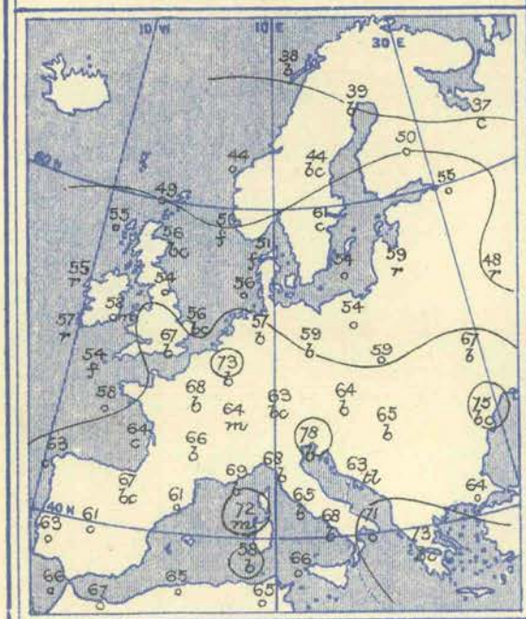
Temperature risen generally but fallen in Norway, Denmark and north Germany as well as in the extreme south of France. Morning readings highest, 77° at La Calle, 73° at Athens, 72° at Bilbao and 71° at Patras; above 65° at most of the Mediterranean and Adriatic stations and as high as 67° even at Stockholm; slightly above 60° in the south-east of England. Lowest, 34° at Archangel, 40° at Uleaborg and 41° at Bodö and Haparanda. Rising during day to 65° and upwards in many parts of the United Kingdom and to 75° or slightly above it over our midland and south-eastern counties; exceeding 70° in several parts of France and central Europe.

Wind light from the South-Eastward over the south-west of our Islands and the west of France, and from the South-Westward over the northern and central parts of England, but Easterly in Scotland. Variable over Scandinavia and northern Russia; Westerly or North-Westerly in northern and eastern Germany; variable over the greater part of southern and eastern Europe. No important change occurring during day.

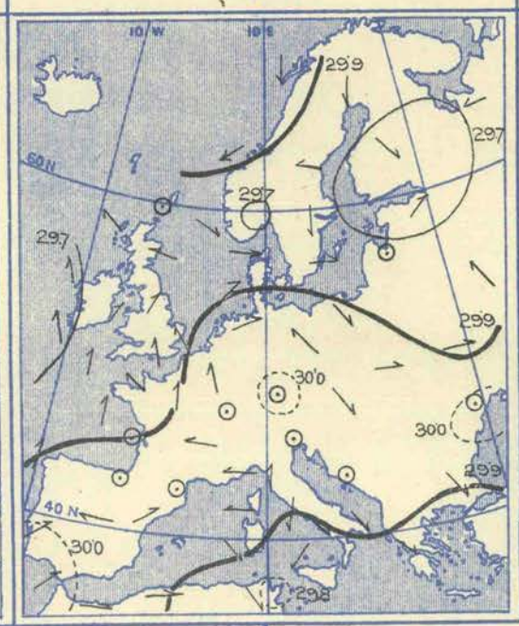
Barometer highest, 30·0 ins. and upwards in three areas,—one lying over north Germany, another over south Germany and Switzerland, and the third over the Black Sea and the south of Russia. Lowest, 29·7 ins. and less in a small depression off the north-west of Norway. Depression subsequently growing larger and moving south-eastwards; new disturbance forming off the north-east of Scotland, and another low-pressure system approaching the Irish coasts at night.

Wednesday, 29th May.

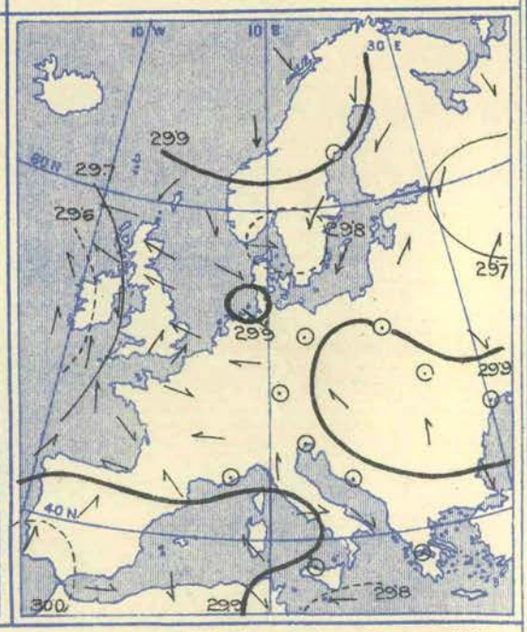
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and central Europe as a whole as well as in the northern parts of Scandinavia, but rainy at many of the Irish stations. Cloudy or dull in most other parts of Europe with fog at Skudesnaes and the Scaw, rain at Riga, Moscow and Cracow, and a thunderstorm at Lesina. Rain falling later over nearly the whole of western and many parts of northern Europe, and thunderstorms occurring at several of the English and French stations.

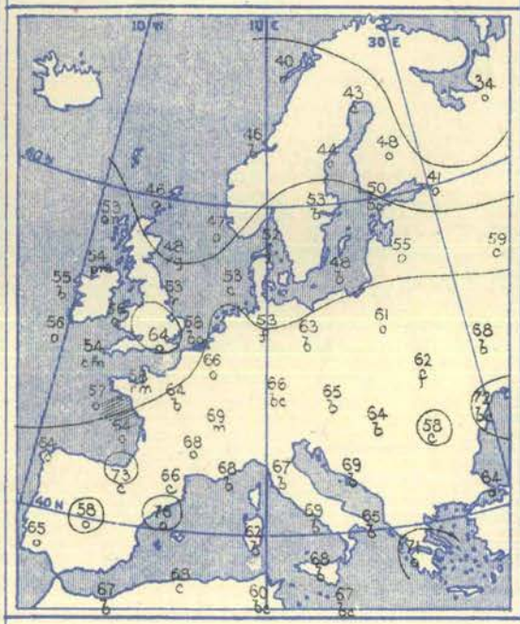
Temperature risen in most of the western and southern countries but fallen on our own extreme west and south-west coasts. Morning readings highest, 78° at Trieste, 73° at Athens, and 72° at Bilbao; above 65° in many parts of France and southern Europe and also over the inland parts of the south of England. Lowest, 37° at Archangel, 38° at Bodö and 39° at Haparanda. Rising during day to 75° and upwards at many of the English stations, to 81° at Loughborough and to 83° in London; exceeding 80° also at many places in central and southern Europe, and reaching 90° at Croisette.

Wind moderate from the Southward or South-Eastward in the west of our Islands, and light from between East and South in most other parts of western Europe. Light to moderate from the Westward or South-Westward over Denmark, the Baltic and the south of Scandinavia; North-Easterly over the northern parts of Scandinavia, variable over central and southern Europe generally, but South-Westerly at most of the Spanish stations. Subsequently shifting to the Northward in the south of Scandinavia; no importan tchange occurring elsewhere.

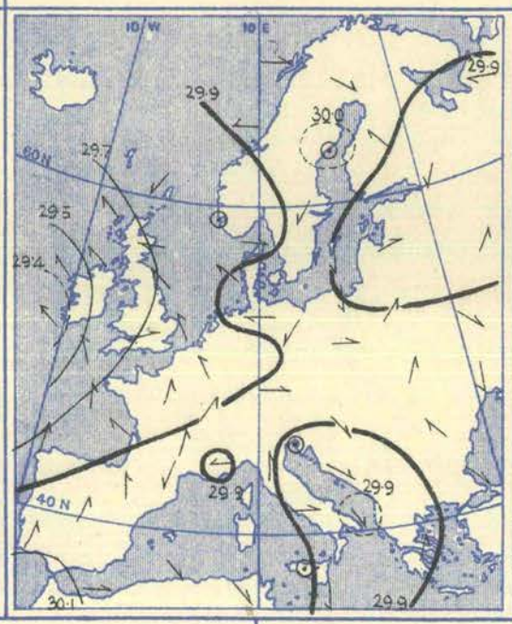
Barometer highest, 30·0 ins. and upwards to 29·9 ins. over the whole of central and the greater part of southern and eastern Europe; 29·9 ins. and upwards in another system lying over the west of Norway and the adjacent parts of the Atlantic. Lowest, 29·7 ins. and less in two large depressions, one lying off the west of Ireland and the other over the north-west of Russia, and also in a smaller disturbance near Christiania. Western depression subsequently spreading slowly eastwards; Russian disturbance moving south-eastwards.

Thursday, 30th May.

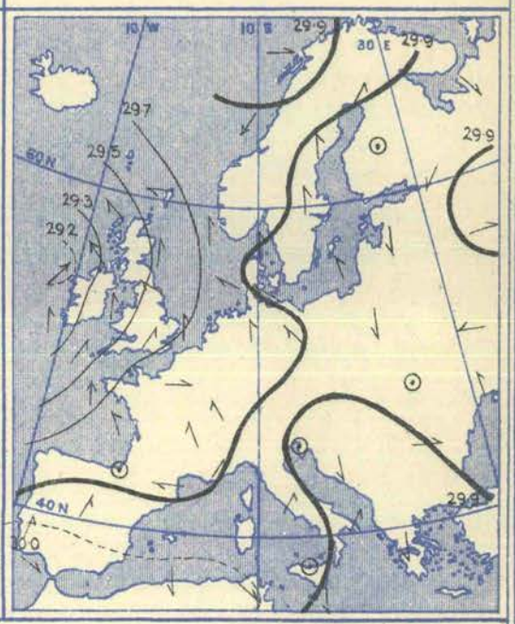
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of southern and central Europe, and also at several of the Baltic stations; cloudy or overcast in other regions, with steady rain over north Britain and showers in Ireland. Rain falling later over the whole of the United Kingdom, the north of France, and in isolated parts of Scandinavia, and a thunderstorm occurring at Cuxhaven.

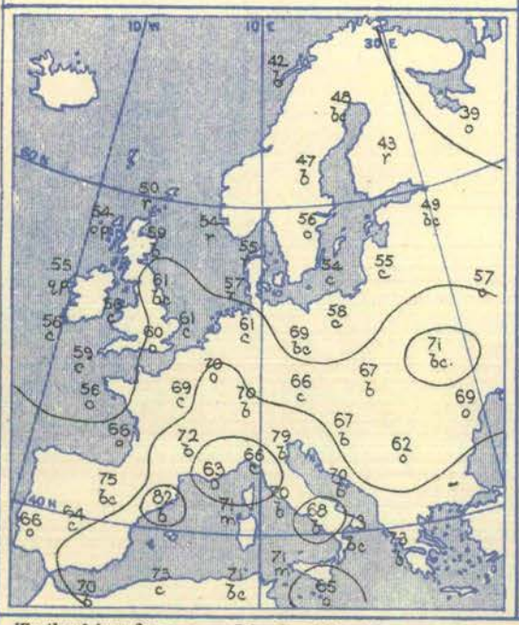
Temperature in morning highest, 80° at Trieste, 76° at Barcelona, 75° at Sanguinaires, 73° at Biarritz, and above 65° in most parts of southern and central Europe and the Mediterranean. Highest in our Islands, 65° at Loughborough. Lowest, 34° at Archangel, 40° at Bodö, 41° at St. Petersburg, 46° at Sumburgh Head, and 48° at Aberdeen. Rising later to 86° at Clermont and Toulouse to 84° at Berlin and Frankfürt and to 80° or rather higher at several southern Continental stations. Not reaching 70° over the United Kingdom, and remaining below 50° in several parts of northern Europe.

Wind moderate to fresh from between South and South-East over the Spanish Peninsula, France, and the United Kingdom. Very light and variable in most other parts of our area, but slight cyclonic circulations over the north of Russia and the Adriatic. Very little change later, but wind in our Islands increasing in strength—especially in the west.

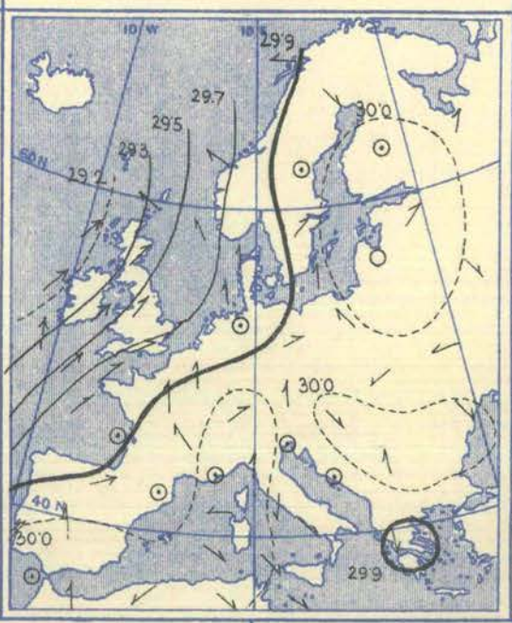
Barometer highest, 30·1 ins. in the extreme south of Spain, and 30·0 ins. in the neighbourhood of Hernösand. Lowest, (1) 29·4 ins. and less in the west of Ireland and the adjacent parts of the Atlantic; (2) 29·8 ins. and less in shallow depressions near Brindisi and over central Russia. Irish disturbance moving northwards later and barometer falling over north-western Europe generally. No material change elsewhere, but Adriatic depression tending to fill up.

Friday, 31st May.

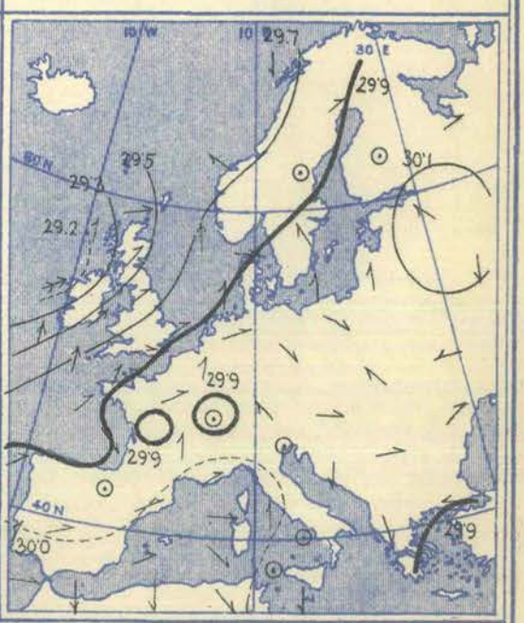
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair or fine over our Islands and the Continent generally, but showery on some parts of our extreme north and north-west coasts. Dull in Denmark and the south of Scandinavia, with rain in several places. Rain falling later in Ireland and Scotland, as well as at many of the Continental stations; thunder occurring at Nairn and lightning at Lyons.

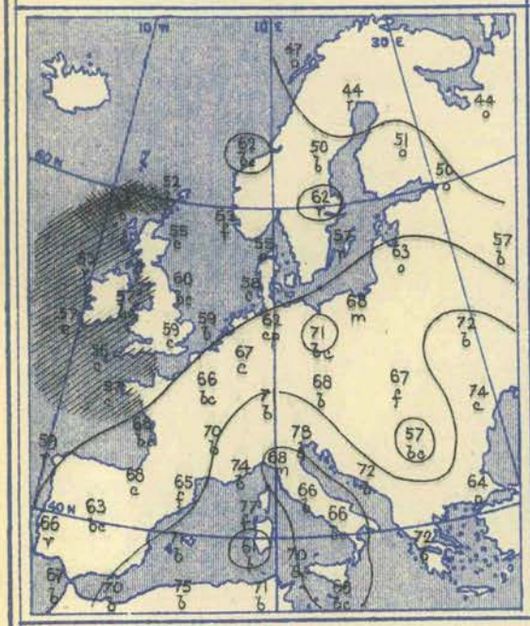
Temperature fallen over central and southern England as well as in northern Italy and the extreme south of France, risen elsewhere. Morning readings highest, 82° at Barcelona, 79° at Trieste, 77° at Bilbao and 75° at Biarritz and Sfax; above 70° at many of the Mediterranean and Spanish coast stations; above 65° in Germany and Austria, and above 60° over eastern and central England. Lowest, 39° at Archangel, 42° at Bodö, 43° at Kuopio, and 47° at Hernösand. Rising during day to 65° and upwards in many parts of Great Britain and to 70° at Spurn Head and Loughborough; exceeding 80° over central and southern Europe; reaching 91° at Lyons and 93° at Clermont.

Wind Southerly or South-Westerly over the whole of the United Kingdom and the neighbouring parts of the Continent, and strong in force on our western coasts as well as at Spurn Head; South-Easterly or Easterly in Norway. Calm in the Gulf of Bothnia; variable over Russia and Austria; Northerly or North-Westerly in Italy. Subsequently increasing to a gale from the Southward or South-Westward on our own extreme north-west coasts; no important change occurring elsewhere.

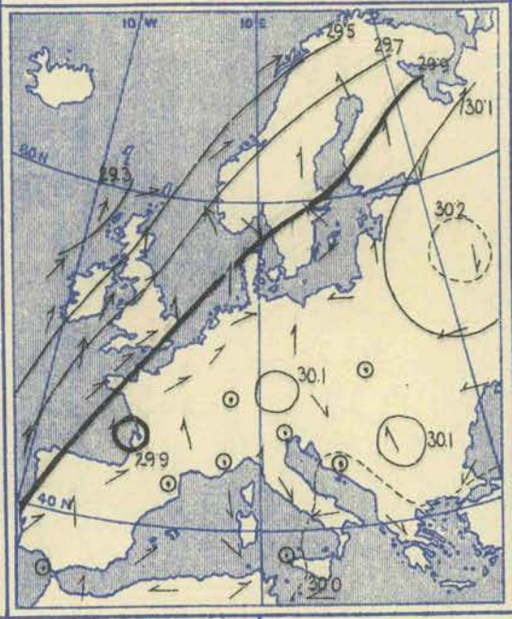
Barometer highest, 30·0 ins. and upwards in two or three large areas lying over various parts of eastern, central and southern Europe. Lowest, 29·2 ins. and less in a large depression lying to the westward of our Islands. New disturbance advancing later to our extreme north-west coasts, and gradients becoming steep over Ireland and the west of Scotland.

Saturday, 1st June.

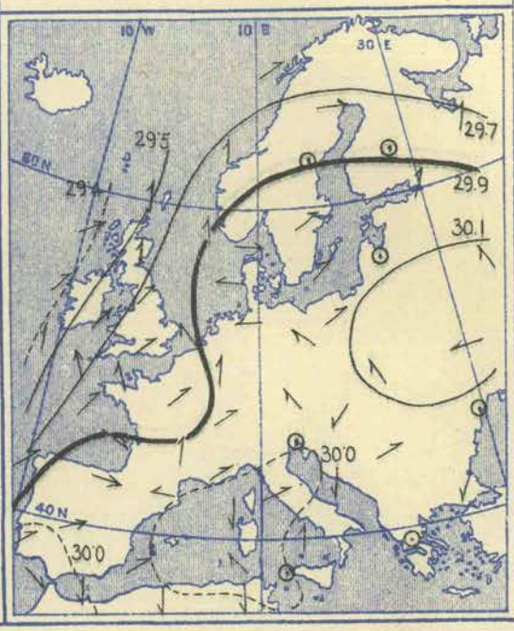
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western Europe as a whole, but rain falling at Blacksod Point, Newton Reigny, Helder and Gris Nez. Rain also general over Sweden. Rain falling later over nearly the whole of our Islands, the west of France and to the eastward of the North Sea, heavily on our own north-west coasts and also in north Germany, where thunderstorms occurred. Thunder also heard at Wick during the night.

Temperature in morning highest, 78° at Trieste, 75° at Algiers and Sfax, 74° at Odessa and Nice, and 72° at Toulon, Turin, Lesina and Athens. Highest in our Islands, 60° at Shields and Spurn Head. Lowest, 44° at Archangel and Haparanda, 47° at Bodo, 50° at several stations in western Russia, and 52° at Sumburgh Head. Rising later to 69° in London, 68° at Shields, 88° at Berlin, 90° at Frankfurt and Lyons and 91° at Biarritz.

Wind moderate to fresh from the Southward or South-Westward over nearly the whole of western Europe, but blowing strongly or with the force of a moderate gale on our own west and north-west coasts. Over central and southern Europe light and very variable breezes were reported. No great change later but Southerly winds spreading over the greater part of the Continent.

Barometer highest, 30·2 ins. and upwards over central Russia, and also in a small anticyclone over Poland. Lowest, 29·3 ins. and less in a depression lying off the north-west of Scotland. No material change later, but barometer continuing to fall on our southern and south-western coasts.

GENERAL NOTES.

At the beginning of the week, when an anticyclone of decreasing intensity lay to the northward of our Islands, a large and shallow, but rather complex, depression spread over western Europe from the southward and occasioned unsettled weather in most places, with heavy falls of rain in Northumberland. After May 27th the northern anticyclone entirely dispersed but a new and larger high-pressure area was gradually formed over central and southern Europe, the brief interregnum between the dispersal of the old and the formation of the new system being marked by considerable variations both in the wind and weather.

In the latter part of the week the barometer was high over nearly the whole of eastern, central and southern Europe, and the weather in those regions was mostly fine, warm and dry. In our Islands the conditions were influenced by a series of cyclonic disturbances which moved in a northerly direction over our extreme western coasts, the borders of the systems extending gradually over the whole Kingdom. Southerly winds of increasing strength were therefore experienced generally, and rain fell in all districts, the amount being however very small in the east and south of England. The break up of the weather was preceded over England by considerable heat on the 29th, thunderstorms being experienced the same night in many districts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	20·8	−17·4	17	−15	BRIGHTON	50·8	− 0·1	46	0
STRATHPEFFER SPA	35·3	− 3·7	29	− 4	WORTHING	56·1	?	51	?
EDINBURGH	30·8	− 5·9	26	− 6	BOGNOR	58·2*	?	52*	?
MORPETH	47·3	?	41	?	WATERGATE (Emsworth)	51·0	?	46	?
NEWCASTLE-ON-TYNE	34·9	?	30	?	WESTBOURNE (Emsworth	60·0*	+ 9·3	54*	+ 8
OSWALDKIRK (Yorkshire)	39·6	+ 0·7	34	0	VENTNOR HOSPITAL	52·4	+ 3·4	47	+ 2
YORK	38·9	− 2·0	34	− 2	SOUTHPORT	40·1	?	35	?
LOWESTOFT	45·6	?	41	?	RHYL	*	?	*	?
HOLLESLEY BAY	50·5	?	45	?	COLWYN BAY	42·8	?	38	?
SHEFFIELD	47·1	?	42	?	ABERDOVEY	48·6*	?	43*	?
WORKSOP	43·6	+ 4·9	39	+ 5	TENBY	47·8	− 4·2	43	− 4
THURCASTON (Leicestershire)	48·2	+ 6·9	43	+ 6	NEWQUAY	47·4	− 3·6	43	− 4
MARGATE	47·9	+ 4·1	43	+ 3	TORQUAY	40·9	−12·0	37	−11
BROADSTAIRS	53·2	?	48	?	GUERNSEY	63·4*	+ 3·4	57*	+ 2
EASTBOURNE	58·7	+ 7·2	53	+ 7					

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Apr. 13th, 1901	Douglas	52	35	50·3	38·7	44·2	−0·4	29	9	6	1·15	+0·57	48·0	+ 8·0	51	+ 9
" " " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	25·6	− 16·1	27	− 17
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	28·5	− 10·5	31	− 11
" " April 20th, "	Clifton	? 65	35	? 56·7	? 40·3	? 48·1	? +1·2	? 50	? 5	2	0·45	−0·05	—	—	—	—
" " " " "	Londonderry	60	32	52·4	37·8	44·8	−2·2	37	12	5	0·76	+0·21	—	—	—	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 23.] *Third Series* WEEK ENDING SATURDAY, JUNE 8TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 134.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	76	39	60·7	46·7	53·2	2 above	78	+14	0	− 2	588	+ 96	560	0
	1. SCOTLAND, EAST	79	39	65·7	45·2	54·7	3 above	89	+11	0	− 2	604*	− 9	654	+43
	2. ENGLAND, N.E.	74	37	66·3	48·7	56·9	4 above	104	+22	0	− 1	630	+ 6	516	+ 9
	3. ENGLAND, EAST	76	38	67·9	48·3	57·4	3 above	108	+12	0	− 1	711	− 71	560	+ 8
	4. MIDLAND COUNTIES	77	34	68·6	47·5	57·4	3 above	107	+ 9	0	− 1	772	− 44	591	+32
	5. ENGLAND, SOUTH	75	44	66·5	50·3	57·9	2 above	111	+ 6	0	0	773	−107	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	36	62·7	47·3	54·5	1 above	88	+ 3	0	− 1	701	+ 24	470	+36
	7. ENGLAND, N.W.	76	34	64·4	49·0	56·2	2 above	99	+ 6	0	− 1	716*	− 2	453	+44
	8. ENGLAND, S.W.	75	43	65·3	51·7	58·1	3 above	113	+15	0	0	836*	− 10	369	+51
	9. IRELAND, NORTH	73	36	62·0	46·8	53·9	0 (average)	83	− 5	0	− 1	707	− 53	374	+11
	10. IRELAND, SOUTH	73	40	62·9	47·8	54·8	0 (average)	90	− 7	0	0	843	− 78	325	+63
	—CHANNEL ISLANDS	73	47	65·7	53·1	59·0	3 above	119	+15	0	0	999	− 14	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 134.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	2 less	100	+ 1	16·2	− 4·0	45	+ 7	37	+ 6	623	+ 91	32	+ 4
	1. SCOTLAND, EAST	2	1	4 less	86	+ 3	11·0*	− 1·0	70	+30	58	+24	654	+ 70	34	+ 4
	2. ENGLAND, N.E.	1	1	3 less	82	+ 3	8·7	− 0·8	70	+28	60	+23	680	+109	35	+ 5
	3. ENGLAND, EAST	0	0	5 less	79	− 1	8·4	− 0·9	76	+25	67	+21	761	+ 53	37	+ 3
	4. MIDLAND COUNTIES	2	1	4 less	75	0	10·1	− 0·6	58	+16	50	+13	659	+ 78	36	+ 5
	5. ENGLAND, SOUTH	0	0	4 less	69	− 6	9·6	− 1·3	70	+18	62	+16	772	+ 65	39	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	5	2 less	84	− 6	17·2	− 3·8	61	+17	52	+14	725	+116	38	+ 6
	7. ENGLAND, N.W.	3	2	3 less	81	0	10·3*	− 2·4	59	+12	51	+11	762*	+138	39	+ 7
	8. ENGLAND, S.W.	2	2	4 less	75*	−10	14·4*	− 1·6	51	− 1	45	− 1	814	+ 97	43	+ 5
	9. IRELAND, NORTH	3	4	2 less	94	− 2	13·7	− 0·1	46	+ 5	40	+ 5	702	+113	36	+ 5
	10. IRELAND, SOUTH	3	5	1 less	82	− 7	14·6	− 2·1	49	+ 4	43	+ 4	768	+108	40	+ 6
	— CHANNEL ISLANDS	1	less than ½	4 less	91	+ 3	13·4	+ 0·6	73	+17	66	+15	822	− 22	42	− 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather over all the western and northern parts of the Kingdom was rather unsettled, with occasional slight rain, during the earlier half of the period ; in the south and east it was fair and dry throughout the week, and this condition gradually spread to the northern and western districts also. Thunder and lightning were experienced in isolated parts of Great Britain—mostly during the early part of the week.

Temperature continued rather above the mean in England and Scotland, but was only just equal to the normal value in Ireland. The highest of the maxima were registered, as a rule, on the 8th, and varied from 79° in Scotland E. and 77° in the Midland Counties, to 74° in England N.E.. and 73° over Ireland and in the Channel Islands. The lowest of the minima occurred on the 7th, and ranged from 34° in the Midland Counties and England N.W., to 43° in England S.W., 44° in England S. and to 47° in the Channel Islands.

Rainfall was much less than the mean in all parts of the Kingdom. In England S. and E. there was none.

Bright Sunshine exceeded the mean in nearly all districts, the excess in most cases being considerable. The percentage of the possible duration ranged from 67 in England E. and 66 in the Channel Islands, to 40 in Ireland N. and 37 in Scotland N.

Barometer and Wind.—During the earlier part of the week shallow depressions moving northwards or north-eastwards skirted our extreme western coasts, and at the same time spread somewhat over the Kingdom. After Wednesday, however, an anticyclone appeared and spread over the country from the south-westward, and during the remainder of the period this was the dominant system. The winds were at first moderate from between South and West, but on the advent of the anticyclone they became North-Westerly to Northerly, and finally light from the Eastward (between South-East and North-East).

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319 | 70 6 | 01.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 133 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°		°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	44	57·1	46·6	51·5	+ 3·6	67	0	2	0·26	− 0·18	*	*	*	*
	Stornoway	63	45	59·3	47·1	52·8	+ 2·3	76	0	3	0·42	− 0·14	50·3	+ 7·5	41	+ 6
	Wick	68	39	62·0	46·7	53·8	+ 3·3	83	0	4	0·29	− 0·11	*	*	*	*
	Lairg Ş												*	*	*	*
	Glencarron Ş	70	45	59·9	46·7	52·8	+ 1·3	76	0	4	0·70	− 0·42	*	*	*	*
	Fort Augustus Ş	76	42	64·4	45·7	54·4	+ 1·7	87	0	4	0·32	− 0·17	33·0	+ 2·6	27	+ 2
	Fort William Ş	70	41	61·7	47·5	54·1	+ 1·1	85	0	4	1·01	+ 0·15	37·4	− 3·4	31	− 3
1. SCOTLAND, E.	Nairn	76	41	66·7	44·9	55·0	+ 2·3	91	0	3	0·09	− 0·31	*	*	*	*
	Aberdeen	65	42	62·0	46·7	53·8	+ 1·8	83	0	2	0·06	− 0·37	79·0	+35·3	65	+28
	Braemar Ş	76	39	63·5	42·8	52·4	+ 2·6	73	0	2	0·09	− 0·43	†	†	†	†
	Ochtertyre Ş	79	40	68·3	44·0	55·3	+ 1·8	93	0	3	0·15	− 0·46	*	*	*	*
	Leith	77	45	67·6	48·6	57·4	+ 3·8	108	0	1	0·08	− 0·34	*	*	*	*
	Marchmont Ş	74	41	66·0	44·4	54·5	+ 3·0	88	0	1	0·08	− 0·49	73·0	+31·6	61	+26
2. ENGLAND, N.E.	Alnwick Castle	68	40	66·0	47·1	55·9	+ 4·4	97	0	0	—	− 0·46	*	*	*	*
	Durham	74	41	66·4	46·1	55·5	+ 2·2	95	0	2	0·17	− 0·27	81·3	+42·2	69	+36
	Shields	68	45	65·4	49·0	56·6	+ 4·1	102	0	1	0·06	− 0·34	*	*	*	*
	Scarborough Ṁ	68	45	65·2	49·8	57·0	+ 3·7	105	0	3	0·19	− 0·27	69·3	?	60	?
	Spurn Head	70	48	65·9	52·1	58·5	+ 4·8	116	0	1	0·10	− 0·26	*	*	*	*
	Fulbeck (Lincolnshire)	74	37	69·1	47·9	57·8	+ 2·6	111	0	1	0·04	− 0·41	*	*	*	*
3. ENGLAND, E.	Hillington Ṁ	74	38	69·4	46·3	57·1	+ 2·2	106	0	0	—	− 0·47	75·3	+29·4	65	+25
	Yarmouth	70	50	65·0	51·1	57·6	+ 3·7	109	0	0	—	− 0·42	*	*	*	*
	Geldeston	74	40	68·8	47·1	57·2	+ 2·6	106	0	0	—	− 0·40	74·8	+25·6	66	+22
	Cambridge	76	41	72·0	47·3	58·8	+ 2·9	118	0	0	—	− 0·46	70·5	+24·4	62	+21
	Felixstowe	68	43	63·6	49·8	56·2	+ 2·1	99	0	0	—	?	84·9†	?†	74†	?†
	Rothamsted	72	44	68·4	48·4	57·7	+ 3·1	110	0	0	—	− 0·48	61·7	+17·2	54	+15
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	34	71·3	46·3	57·9	+ 3·2	111	0	1	0·04	− 0·44	*	*	*	*
	Loughborough	75	37	69·7	46·3	57·2	+ 1·3	106	0	3	0·21	− 0·28	*	*	*	*
	Colly Weston (Stamford)	75	40	71·3	48·1	58·9	+ 3·5	118	0	1	0·01	?	*	*	*	*
	Cheadle Ṁ	72	43	66·2	47·8	56·4	+ 3·3	101	0	1	0·04	− 0·57	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	72	45	67·4	48·7	57·4	+ 3·0	108	0	2	0·07	− 0·50	47·2	?	41	?
	Churchstoke Ṁ	72	38	66·4	45·5	55·2	+ 1·8	92	0	2	0·26	− 0·24	56·9	+12·2	49	+10
	Hereford (Belmont) Ṁ	72	40	67·9	46·9	56·7	+ 0·8	103	0	2	0·04	− 0·41	*	*	*	*
	Cirencester	72	44	67·7	48·3	57·3	+ 2·9	107	0	1	0·13	− 0·37	57·1	+11·0	50	+ 9
	Oxford	74	45	69·4	49·9	59·0	+ 2·9	119	0	2	0·09	− 0·37	59·3	+14·2	52	+12
5. ENGLAND, S.	London	75	47	71·6	50·6	60·4	+ 3·1	129	0	0	—	− 0·44	53·1†	+11·3†	47†	+10†
	Swarraton (Alresford) Ṁ												*	*	*	*
	Dungeness	69	48	63·0	51·0	56·6	+ 1·0	102	0	0	—	− 0·30	81·0	?	72	?
	Hastings (St. Leonards)	71	47	64·1	50·3	56·7	+ 1·4	103	0	0	—	− 0·38	87·3	+34·1	77	+30
	Southampton	74	47	70·4	51·6	60·4	+ 3·0	129	0	0	—	− 0·44	69·4	+19·7	61	+17
	Portland Bill	73	48	63·1	50·7	56·5	+ 1·5	102	0	0	—	?	*	*	*	*
	Shaftesbury Ṁ	70	44	66·5	47·8	56·5	+ 2·1	102	0	0	—	− 0·50	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	68	42	60·1	47·8	53·5	− 0·2	81	0	5	1·03	+ 0·12	*	*	*	*
	Glasgow	75	43	64·0	48·2	55·6	+ 2·1	95	0	3	0·32	− 0·29	54·0	+16·7	45	+14
	Glenlee Ş	75	36	65·2	45·7	54·8	+ 1·7	90	0	3	0·41	− 0·31	*	*	*	*
	Douglas (Isle of Man)	68	43	61·4	47·6	54·0	+ 0·8	84	0	2	0·28	− 0·24	67·1	+15·9	58	+14
7. ENGLAND, N.W.	Newton Reigny	76	38	67·0	46·0	55·8	+ 3·6	97	0	2	0·15	?	69·0	?	58	?
	Stonyhurst	72	34	64·6	47·9	55·7	+ 1·6	96	0	2	0·38	− 0·32	49·3	+ 4·5	43	+ 4
	Blackpool Ṁ	67	44	63·2	49·7	56·0	+ 1·3	98	0	2	0·27	− 0·22	61·7	+16·7	53	+14
	Manchester (Prestwich)	76	41	67·1	48·3	57·1	+ 3·0	106	0	3	0·19	− 0·44	51·5	?	44	?
	Liverpool Obsy. (Bidston)	72	47	64·3	50·6	57·0	+ 1·7	105	0	3	0·17	− 0·29				
	Chester (Hawarden Bridge)	74	43	66·1	49·4	57·2	+ 1·2	106	0	5	0·26	?	*	*	*	*
	Llandudno Ṁ	68	45	63·4	49·9	56·2	+ 0·7	99	0	4	0·17	− 0·27	60·5	+14·6	53	+13
	Holyhead	63	50	59·6	50·4	54·7	+ 0·2	89	0	3	0·27	− 0·18	*	*	*	*
8. ENGLAND, S.W.	Llandovery	75	43	67·4	50·3	58·3	+ 3·4	114	0	2	0·18	− 0·46	*	*	*	*
	Pembroke	65	52	58·9	52·7	55·6	+ 1·5	95	0	4	0·38	− 0·07	55·6	+ 2·6	49	+ 2
	Clifton	73	49	67·8	51·9	59·3	+ 3·9	121	0	2	0·20	− 0·32	*	*	*	*
	Bath	74	44	68·7	51·4	59·5	+ 3·2	123	0	2	0·09	?	52·5	?	46	?
	Arlington (N. Devon)	70	49	63·7	50·4	56·6	+ 2·8	102	0	3	0·57	− 0·11	*	*	*	*
	Cullompton Ṁ	72	46	67·6	49·8	58·1	+ 2·1	113	0	2	0·06	− 0·46	40·2	− 7·6	36	− 6
	Falmouth	67	50	64·2	52·9	58·2	+ 2·5	113	0	2	0·02	− 0·55	54·6	+ 0·8	48	0
	Plymouth	68	53	63·8	54·4	58·8	+ 2·1	118	0	1	0·01	− 0·46	42·8	− 7·4	38	− 7
9. IRELAND, N.	Malin Head	63	47	59·4	49·3	54·0	+ 1·0	84	0	4	0·19	?	*	*	*	*
	Londonderry	73	42	64·5	46·4	54·8	0·0	90	0	4	0·44	− 0·16	*	*	*	*
	Edenfel (Omagh)	73	39	63·7	46·0	54·2	+ 1·2	85	0	4	0·39	− 0·23	*	*	*	*
	Blacksod Point	60	42	58·0	47·9	52·6	− 1·5	74	0	3	0·68	?	*	*	*	*
	Markree Castle	68	36	62·8	44·0	52·8	− 0·2	76	0	4	0·89	+ 0·20	41·0	+ 0·6	35	0
	Armagh	71	40	64·5	46·7	55·0	+ 1·2	91	0	2	0·16	− 0·36	51·4	+10·6	44	+ 9
	Donaghadee	69	43	61·4	47·4	53·9	+ 0·2	83	0	3	0·18	− 0·32	*	*	*	*
10. IRELAND, S.	Dublin	66	44	63·9	49·4	56·2	+ 0·5	99	0	3	0·34	− 0·11	49·2	+ 2·4	43	+ 2
	Parsonstown	73	40	64·6	45·4	54·3	− 0·3	86	0	3	0·17	− 0·39	48·7	+ 8·2	42	+ 7
	Kilkenny	71	40	65·0	46·4	55·1	+ 0·2	92	0	2	0·36	− 0·17	*	*	*	*
	Roche's Point	61	46	59·9	49·6	54·4	− 1·3	87	0	2	0·39	− 0·31	*	*	*	*
	Valencia	67	44	61·1	49·0	54·6	− 0·3	88	0	4	0·48	− 0·29	49·5	+ 2·8	43	+ 2
	Killarney	65	42	62·2	48·2	54·7	+ 0·1	89	0	5	1·55	+ 0·88	*	*	*	*
	Foynes	71	40	63·6	46·6	54·5	− 0·2	88	0	2	0·15	− 0·43	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	52	63·4	54·1	58·4	+ 2·7	115	0	1	0·02	− 0·38	67·9	?	61	?
	Jersey	73	47	68·0	52·1	59·5	+ 2·5	123	0	1	0·01	− 0·43	73·3	+16·1	66	+14

Stations marked Ṁ are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

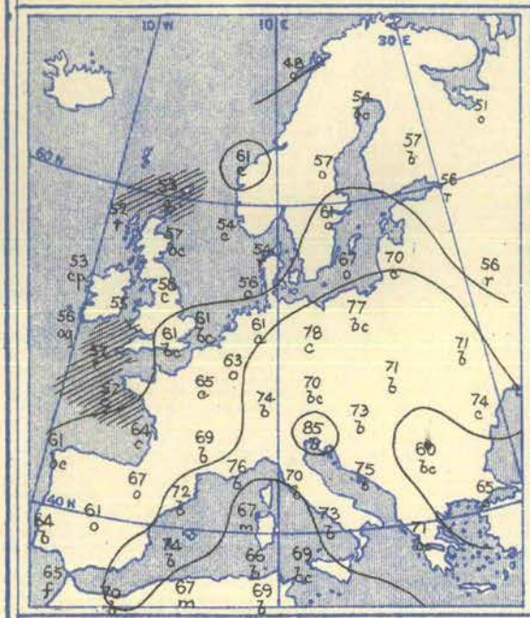
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 2nd June.

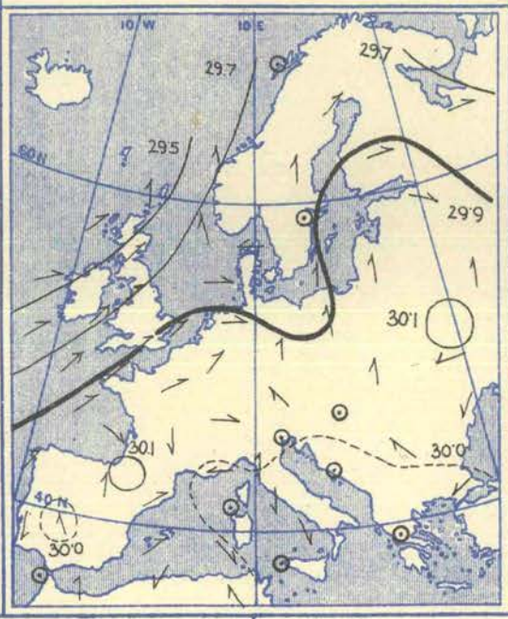
Temperature and Weather.

8 a.m.

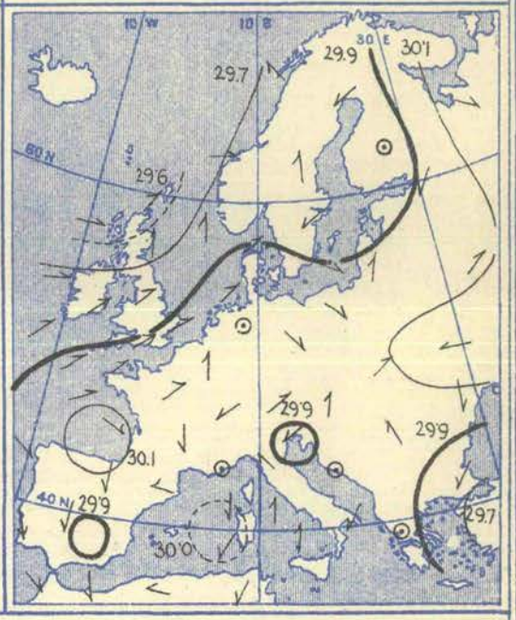


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of Europe but dull in the west and extreme north of our Islands, as well as in Scandinavia, Denmark and northern and central Russia with rain in several places; dull also in the south-west of France and foggy at Perpignan and Leghorn. Showers falling later in several parts of Europe and thunderstorms and heavy rain occurring over central and southern France, the amount being as large as 0·9 ins. at Belfort and Perpignan. Thunder heard at Wick and Donaghadee.

Temperature changed very irregularly in the western countries but risen elsewhere. Morning readings highest (1), 85° at Trieste, 76° at Nice and 75° at Toulon and Lesina; (2) 78° at Swinemunde and 77° at Neufahrwasser; above 70° in many parts of central and southern Europe and slightly above 60° in some parts of Great Britain. Lowest (1), 48° at Bodö and 51° at Archangel; (2) 52° at Stornoway and Malin Head. Rising during day to between 65° and 70° in many parts of Great Britain; exceeding 80° over central and southern Europe and exceeding 85° at several of the French, German and Austrian stations.

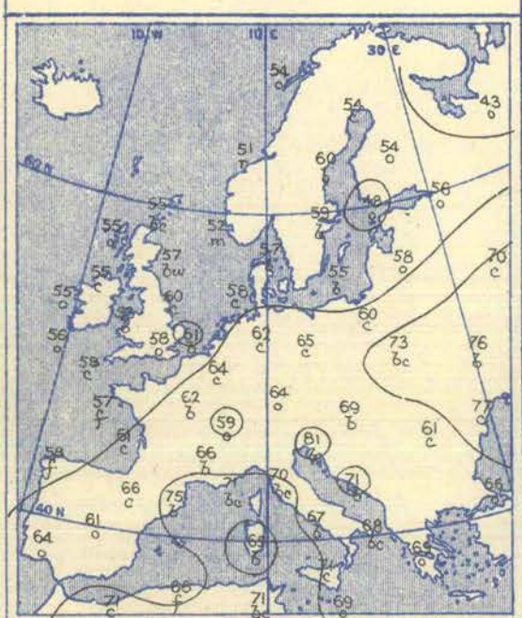
Wind Southerly or South-Westerly over western and northern Europe generally, but South-Easterly in the west of Norway; light or moderate in force generally but strong on the Welsh coasts. Variable over Austria and also over the Spanish Peninsula; Northerly or North-Westerly in Italy; North-Easterly in the south of Russia. No important change occurring during day.

Barometer highest, 30·1 ins. and upwards in a large anticyclone over the southern parts of Russia and also in a smaller system off the Portuguese coasts. Lowest, 29·4 ins. and less in a depression off the west of Scotland. Russian anticyclone extending later over the northern parts of Russia; depression off the Scotch coasts travelling north-eastwards; barometer rising in all but the southern countries.

Monday, 3rd June.

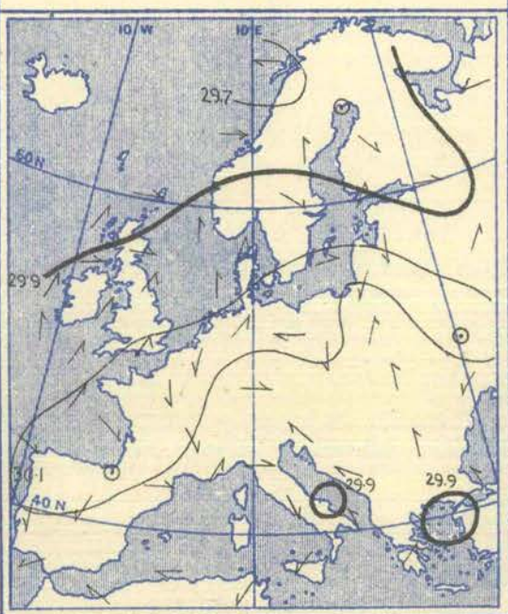
Temperature and Weather.

8 a.m.

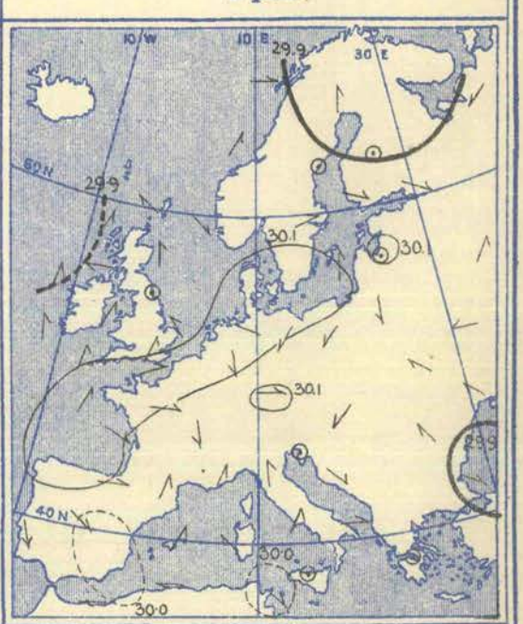


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over Europe as a whole, but dull over western and central Ireland as well as over the Spanish Peninsula and also over Norway and northern Russia with rain at Christiansund. Fog reported on several parts of our own western and southern coasts. Showers falling later at many stations in northern and north-western Europe; thunder occurring at Loughborough.

Temperature fallen over France, Germany and the south of England, changed irregularly elsewhere. Morning readings highest, 82° at Toulon, 81° at Trieste and 75° at Sfax; above 70° at most of the Mediterranean and Adriatic stations; above 60° over France and central Europe and also at Yarmouth. Lowest, 43° at Archangel, 49° at Ulcaborg, 51° at Christiansund and 52° at Skudesnaes. Rising during day to 65° and upwards in many parts of Great Britain and to 69° in London; exceeding 70° in Germany and exceeding 80° in several parts of southern Europe, the highest reading reported being 95° at Croisette.

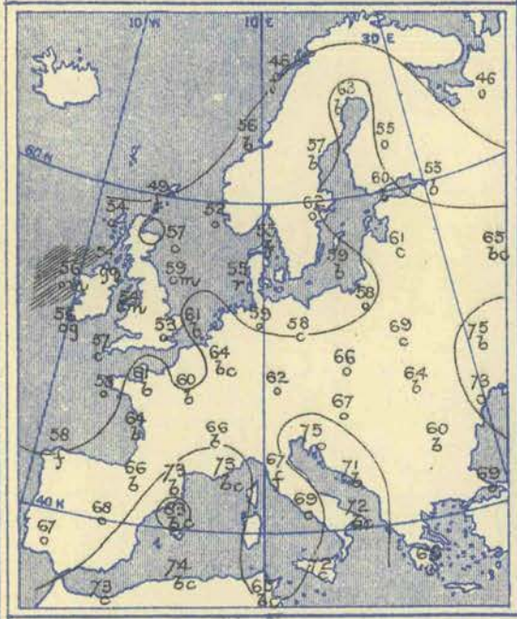
Wind light to moderate from the Southward or South-Westward over the north-western countries generally, but Westerly or North-Westerly over the Baltic and western Russia. Light from the Northward or North-Eastward over the Spanish Peninsula; variable in Italy and the south of France. No important change occurring during day.

Barometer highest 30·1 ins. and upwards in an anticyclone of irregular form lying over the north of Spain, France, the Netherlands, north Germany, the Baltic and a portion of western and southern Russia. Lowest, 29·7 ins. and less in a shallow depression over the north of Norway. No decided change occurring later but Norwegian depression travelling away to the north-eastward.

Tuesday, 4th June.

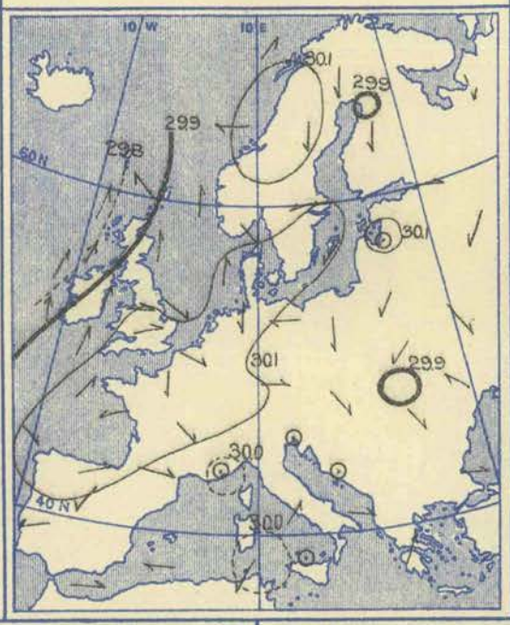
Temperature and Weather.

8 a.m.

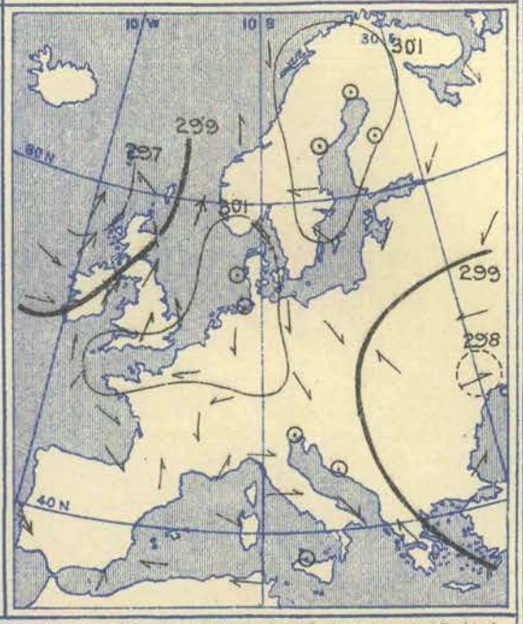


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over Europe as a whole but dull in Ireland and the west of Scotland as well as in eastern Germany and Austria; fog reported at Sumburgh Head, Faerder and the Scaw, and rain at Fanö. Rain falling later in the west and north of our Islands generally as well as at some of the German and Austrian stations,—heavily at Trieste.

Temperature changed rather irregularly. Morning readings highest (1), 83° at Barcelona, 75° at Toulon and Trieste, and 74° at Algiers; (2) 75° at Kiev and 73° at Odessa; above 70° at several of the Mediterranean and Adriatic stations. Lowest, 46° at Bodö and Archangel, 49° at Sumburgh Head and 52° at Skudesnaes. Rising during day to 65° and upwards in many parts of Great Britain to 70° at Spurn Head and to 72° in London; exceeding 80° over southern and eastern Europe, the highest readings reported being 91° at San Fernando and 90° at Marseilles and Croisette.

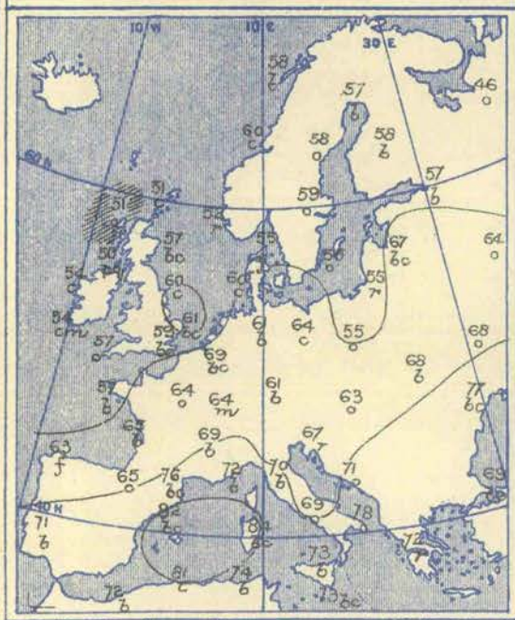
Wind Southerly in the west and north of our Islands and strong in force in the west of Ireland. Light from the Westward or South-Westward over England; variable in the western and northern parts of the Continent. Northerly or North-Easterly over Sweden and the Baltic; Westerly or North-Westerly in Austria. Variable in Italy; Westerly in the extreme south of France; North-Easterly over the Spanish Peninsula. Subsequently increasing to a gale from South and South-West on our extreme north-west coasts, but shifting to the North-Westward in the west of Ireland in evening.

Barometer highest, 30·1 ins. and upwards in an anticyclone of irregular form lying over France, the Netherlands, Denmark and the southern and central parts of England and also in another system over Scandinavia. Lowest, 29·3 ins. and less in a depression lying off our own extreme north west coasts; 30·0 ins. and less in a large shallow area over eastern Europe. Depression in north-west subsequently moving north-eastwards and barometer rising again in the west of Ireland.

Wednesday, 5th June.

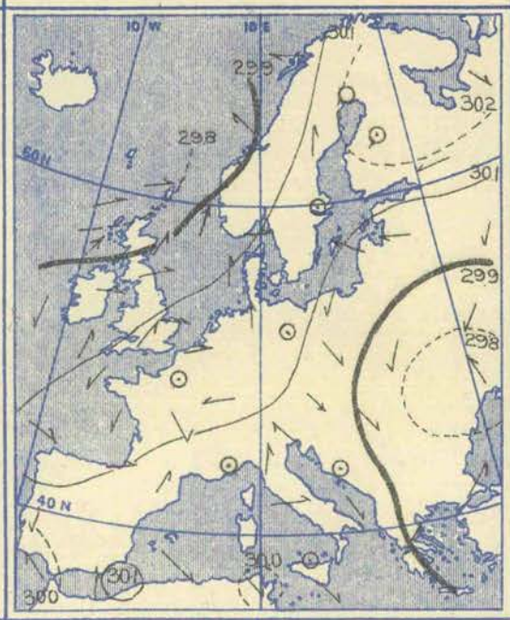
Temperature and Weather.

8 a.m.

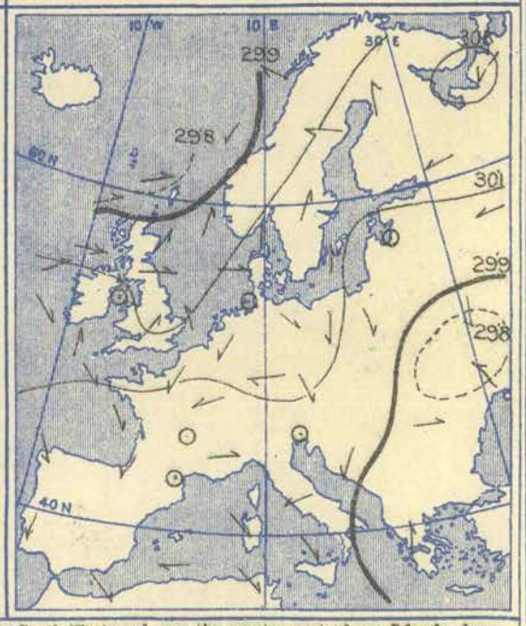


Barometer and Wind.

8 a.m.



6 p.m.



Weather fair or fine over Europe as a whole but dull at the Welsh stations and also on our extreme north and north-west coasts with passing showers at Malin Head; rain falling at Skudesnaes and also at Cracrow, Trieste and Patras. Slight rain occurring later in many isolated parts of western Europe and larger quantities in Austria and northern Italy; thunder and lightning occurring at some of the southern French stations and also at Laghouat.

Temperature risen generally, fallen in the extreme west and north of our Islands and also in Austria. Morning readings highest, 82° at Barcelona, 81° at Algiersand 80° at San Fernando; above 70° at most of the Mediterranean, Adriatic and Spanish coast stations, as well as in the south of Russia. Lowest (1), 46° at Archangel, 50° at Malin Head and (2) 51° at Sumburgh Head and Stornoway. Rising during day to between 65° and 70° in many parts of Great Britain and to 75° in London, but remaining below 60° on some parts of our western and extreme northern coasts. Exceeding 80° over a considerable portion of central and southern Europe, the highest reading reported being 91° at Bordeaux and Croisette.

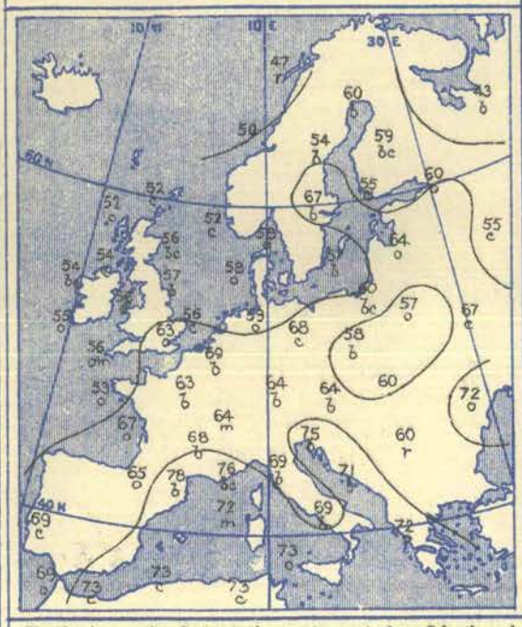
Wind light to moderate from the South-Westward over the greater part of our Islands, from the Southward in the south of Norway and from the South-Eastward or Eastward in most other parts of Scandinavia. Light from the Northward in the south of Ireland and from the North-Eastward over the Bay of Biscay. Easterly or North-Easterly over Russia and the Baltic, North-Westerly in Austria and Italy; South-Westerly in Greece. Subsequently veering to the Westward in many parts of the United Kingdom; and shifting to the North-Westward in the west of France.

Barometer highest, 30·2 ins. and upwards over northern Russia; 30·1 ins. and upwards in an anticyclonic band extending thence over Sweden, the Baltic, Germany, the Netherlands France, and the southern parts of England. Lowest, 29·8 ins. and less in a depression lying off the north of Scotland and also in another system over the Black Sea and the extreme south of Russia. Scotch depression subsequently travelling away in a north-easterly direction and new anticyclone beginning to appear off our extreme western coasts.

Thursday, 6th June.

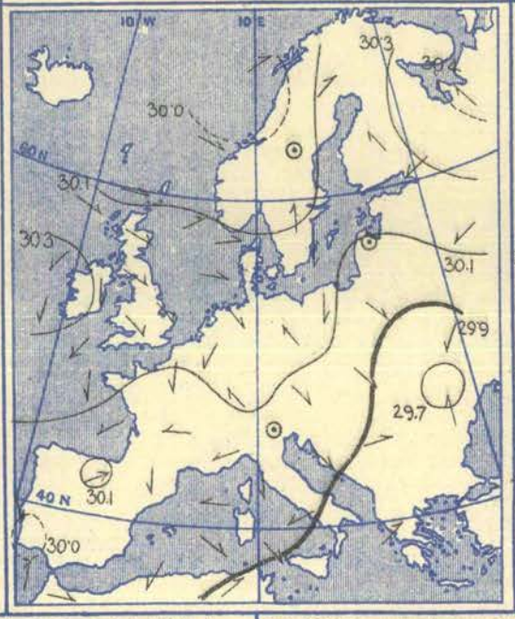
Temperature and Weather.

8 a.m.

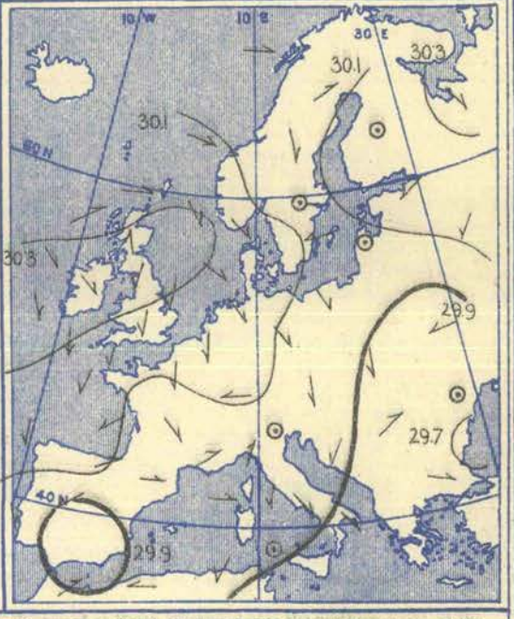


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent but dull in the west of France and also in Denmark; rain falling at Bodö and also at Lemberg, Hermanstadt and Barcelona. No important change occurring over western Europe during day but rain falling at several of the Austrian stations and thunderstorms reported in the south of France.

Temperature changed very irregularly. Morning readings highest, 84° at Cagliari, 78° at Perpignan and 76° at Nice and Barcelona; above 70° at most of the Mediterranean and Adriatic stations, and also in the extreme south of Russia. Lowest, 43° at Archangel, 47° at Bodö, 50° at Christiansund and 52° at Sumburgh Head and Stornoway. Rising during day to between 65° and 70° in many parts of Great Britain and to 73° in London and at Jersey and Portland Bill; exceeding 80° over southern Europe generally and reaching 93° at Madrid.

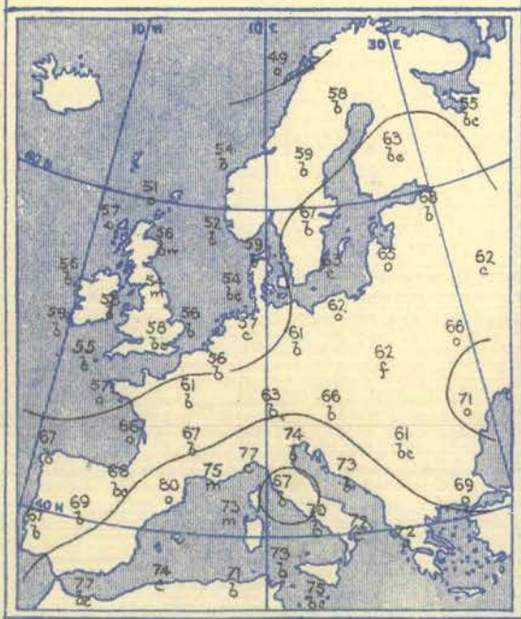
Wind light to moderate from the Westward or North-Westward over the northern parts of the United Kingdom and also on the eastern shores of the North Sea; North-Easterly over the south of our Islands and the northern parts of France. Southerly or South-Westerly over the greater part of Scandinavia and South-Easterly or Easterly over northern Russia—variable in Germany and Austria, Northerly over Italy and the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards to 30·2 ins. in an anticyclone over northern Russia; 30·3 ins. and upwards to 30·2 ins. in another system extending over the United Kingdom from the Atlantic. Lowest, 29·8 ins. and less in a large shallow area over south-eastern Europe, 30·0 ins. and less in another shallow system over the northern parts of Norway. Western anticyclone subsequently spreading over the whole of north-western Europe; Norwegian depression moving away to the north-eastward but new disturbance forming over the southern parts of the Spanish Peninsula.

Friday, 7th June.

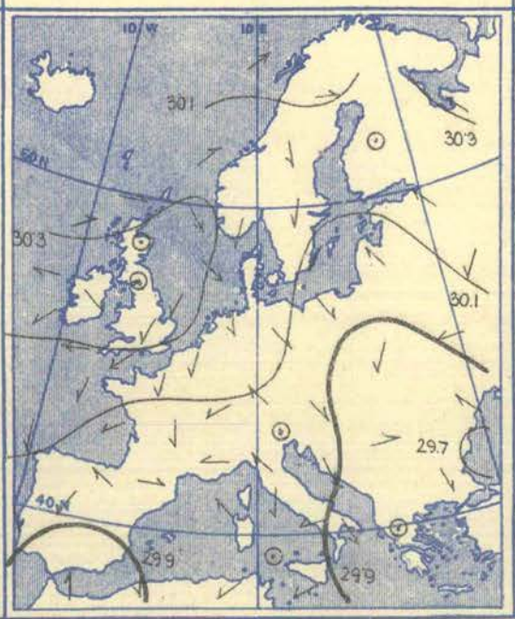
Temperature and Weather.

8 a.m.

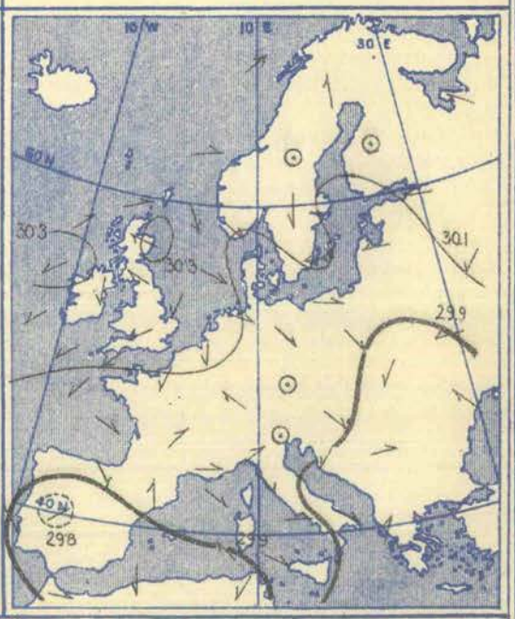


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent but dull in the Shetlands and Hebrides and also in the west of France. Rain falling later over Denmark, north Germany and the south of Sweden,—heavily at Copenhagen as well as at Turin; thunder and lightning occurring at several stations in the south of France.

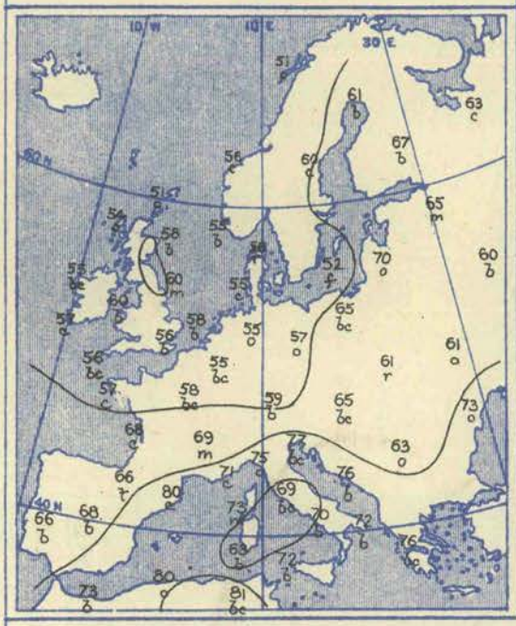
Temperature fallen in most parts of England, France, Germany and the Netherlands but risen elsewhere. Morning readings highest, 82° at San Fernando, 80° at Barcelona and 77° at Leghorn and Nemours; above 70° at most of the Mediterranean and Adriatic stations and also in the extreme south of Russia. Lowest, 49° at Bodö, 51° at Sumburgh Head and Loughborough and 52° at Skudesnaes. Rising during day to 65° and upwards in many parts of the United Kingdom to 70° at Parsonstown and to 73° at Leith. Exceeding 80° over southern Europe generally and exceeding 85° in many places, the highest reading reported being 93° at Madrid

Wind North-Easterly over the greater part of England, France and the Netherlands and fresh in force at some of the Channel stations; variable in Ireland. Light from the Westward or South-Westward in Scotland and strong from the same quarter in the north-west of Norway. Strong from the North-Westward in Denmark and the south of Norway and light from the same quarter in Germany and Austria; Northerly or North-Easterly over Sweden and the Baltic. Variable over Italy and the south of France; North-Easterly over the Spanish Peninsula. Subsequently becoming very variable in the north of our Islands; no important change occurring elsewhere.

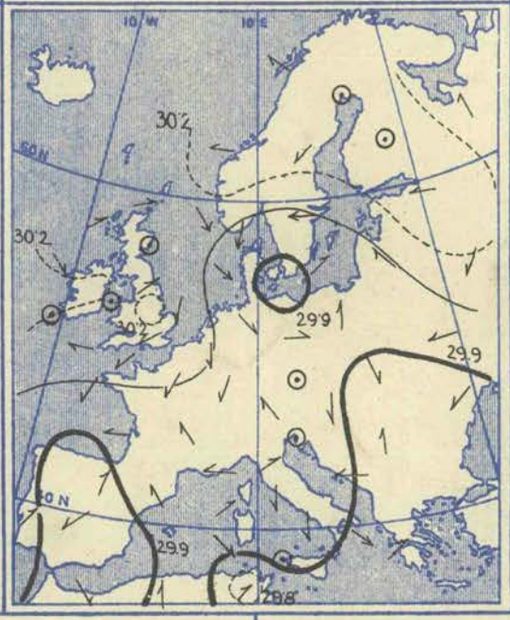
Barometer highest, 30·3 ins. to 30·4 ins. over the greater part of our Islands and the North Sea; 30·2 ins. and upwards in an anticyclone covering nearly the whole of north-western Europe and also in another system over northern Russia. Lowest, 29·8 ins. and less in a large shallow area over south-eastern Europe. Anticyclones both dispersing gradually during day, but general distribution of pressure remaining unchanged.

Saturday, 8th June.

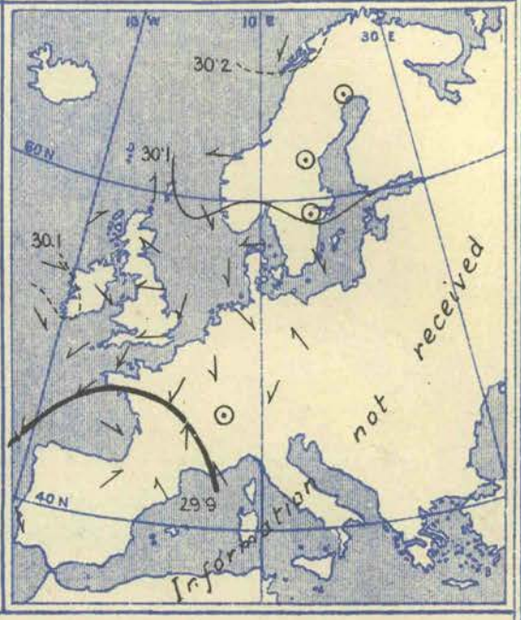
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of western, central and southern Europe, but cloudy or dull in the south of France, with thunder at Biarritz. Rainy in many parts of Denmark, north Germany and the south of Scandinavia. A little rain falling later in the west and north of Ireland and larger quantities in Sweden, Denmark and north Germany.

Temperature risen in the north and east of our Islands and the northern parts of the Continent, changed irregularly in France, fallen elsewhere. Morning readings highest, 81° at La Calle, 80° at Barcelona and Algiers, and 77° at Trieste; above 70° at most of the Mediterranean and Adriatic stations and above 65° in some parts of northern Russia. Lowest, 51° at Bodö and Sumburgh Head, 52° at Donaghadee and 53° at Portland Bill. Rising during day to between 70° and 75° in many parts of Great Britain to 76° at Nairn and to 77° at Leith; exceeding 80° in the west and south of France and reaching 88° at Lorient.

Wind light to moderate from the North-Eastward over the greater part of England, France and the Netherlands but rather variable in Ireland and Scotland, Easterly or North-Easterly in Scandinavia and strong in force in the south; strong from North or North-West in Denmark; variable in Germany, Austria and northern Italy; Northerly or North-Westerly in southern Italy. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards over the northern parts of Russia and Scandinavia and also in some parts of Ireland and the north of England; 30·1 ins. and upwards in an anticyclone covering the greater part of northern and north-western Europe. Lowest, 29·9 ins. and less in a well-marked depression over the southern parts of the Baltic and the neighbouring portions of Denmark and Germany as well as in large shallow areas lying respectively over the Spanish Peninsula and over the whole of south-eastern Europe. Anticyclone gradually breaking up during day; Baltic depression partially dispersing.

GENERAL NOTES.

During the earlier half of the week the conditions over the central and southern parts of the Continent were mainly anticyclonic, the central portion of the high pressure system being found at first over the south of Russia, and afterwards over France, Denmark and Germany. In our Islands the weather was at the same time influenced by depressions moving in a north-easterly direction outside our western and northern coasts, the prevailing winds being consequently Southerly or South-Westerly, and the weather rather changeable, especially in Ireland, where the rainfall was at times rather heavy.

After the 5th the series of depressions came to an end, while a large anticyclone spread from the Atlantic, firstly over the United Kingdom, and ultimately over the whole of north-western Europe. North-Easterly winds now set in over England and France, and variable breezes on our northern coasts, while fine weather became general over nearly the whole of Europe. Towards the close of the week the anticyclone began to break up, and on the 8th a well-marked depression appeared over the Baltic, and caused rain in all the surrounding regions. Shallow disturbances were at the same time developed over the southern countries and the Mediterranean, and thunderstorms with heavy rain set in over the south of France and northern Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
BEERNESS (Orkney Islands)	56·9	+19·9	46	+16	BRIGHTON	63·8	+12·4	56	+10
STRATHPEFFER SPA	46·4	+ 8·2	38	+ 6	WORTHING	73·5	?	65	?
EDINBURGH	58·2	+22·5	49	+18	BOGNOR	70·8*	?	63*	?
MORPETH	83·4	?	71	?	WATERGATE (Emsworth)	64·4	?	57	?
NEWCASTLE-ON-TYNE	64·0	?	54	?	WESTBOURNE (Emsworth	72·6*	+22·4	64*	+19
OSWALDKIRK (Yorkshire)	56·4	+17·9	49	+16	VENTNOR HOSPITAL	49·0	+ 1·5	43	+ 1
YORK	62·8	+22·4	54	+19	SOUTHPORT	59·9	?	52	?
LOWESTOFT	80·3	?	70	?	RHYL	63·3*	?	55*	?
HOLLESLEY BAY	87·3	?	77	?	COLWYN BAY		?		?
SHEFFIELD	63·1	?	55	?	ABERDOVEY	55·7*	?	48*	?
WORKSOP	63·7	+25·7	55	+22	TENBY	47·3	- 5·7	41	- 6
THURCASTON (Leicestershire)	57·9	+17·0	50	+14	NEWQUAY	55·5	+ 3·7	50	+ 3
MARGATE	70·0	+26·7	62	+23	TORQUAY	56·5	+ 2·5	50	+ 2
BROADSTAIRS	83·2	?	74	?	GUERNSEY	77·3*	+18·3	70*	+16
EASTBOURNE	78·0	+26·7	69	+23					

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Apr. 20th, 1901	Rhyl	—	—	—	—	—	—	—	—	—	—	—	51·9	?	53	?
,, ,, May 4th, ,,	Edinburgh	—	—	—	—	—	—	—	—	—	—	—	42·4	+ 9·0	40	+ 8
,, ,, ,, ,, ,,	Hollesley Bay	—	—	—	—	—	—	—	—	—	—	—	48·9	?	47	?
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	50·1	?	48	?
,, ,, ,, ,, ,,	Colwyn Bay												51·2	?	49	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 24.] *Third Series.* WEEK ENDING SATURDAY, JUNE 15TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 140.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	35	54·9	41·5	47·8	4 below	43	−27	1	0	631	+ 69	561	0
	1. SCOTLAND, EAST	70	35	59·0	40·8	49·3	4 below	56	−29	3	+ 2	660	− 38	657	+45
	2. ENGLAND, N.E.	78	37	61·6	44·5	52·5	2 below	74	−18	0	0	704	− 12	516	+ 9
	3. ENGLAND, EAST	81	39	62·7	45·6	53·6	3 below	81	−24	0	0	792	− 95	560	+ 8
	4. MIDLAND COUNTIES	83	37	63·0	44·8	53·3	3 below	79	−27	0	0	851	− 71	591	+32
	5. ENGLAND, SOUTH	81	38	64·5	48·1	55·7	2 below	96	−17	0	0	869	−124	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	38	57·5	43·0	49·8	5 below	55	−38	0	0	756	− 14	470	+36
	7. ENGLAND, N.W.	72	39	58·7	46·1	51·9	4 below	69	−32	0	0	785	− 34	453	+44
	8. ENGLAND, S.W.	75	35	62·1	47·7	54·4	2 below	87	−18	0	0	923	− 28	369	+51
	9. IRELAND, NORTH	62	41	55·8	45·5	50·3	5 below	58	−36	0	0	765	− 89	374	+11
	10. IRELAND, SOUTH	64	40	58·8	47·4	52·7	4 below	75	−28	0	0	918	−106	325	+63
	—CHANNEL ISLANDS	75	47	61·8	52·0	56·6	1 below	102	−10	0	0	1101	− 24	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 140.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	14	8 more	106	+ 3	17·6	− 3·3	34	− 4	28	− 2	657	+ 88	32	+ 4
	1. SCOTLAND, EAST	5	5	0 (average)	91	+ 5	11·5	− 1·0	49	+ 9	40	+ 7	703	+ 79	34	+ 4
	2. ENGLAND, N.E.	2	2	3 less	83*	+ 1	8·9	− 1·1	49	+ 7	42	+ 6	729	+116	36	+ 6
	3. ENGLAND, EAST	3	2	2 less	82	− 1	8·6	− 1·2	57	+14	50	+12	818	+ 67	38	+ 3
	4. MIDLAND COUNTIES	3	2	4 less	78	0	10·3	− 0·9	51	+ 9	44	+ 8	710	+ 87	36	+ 4
	5. ENGLAND, SOUTH	2	2	3 less	71	− 6	9·8	− 1·5	61	+12	53	+11	833	+ 79	40	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	1 more	89	− 5	18·0	− 3·7	51	+ 7	43	+ 6	776	+123	38	+ 6
	7. ENGLAND, N.W.	5	5	0 (average)	86	+ 2	10·8	− 2·4	48	+ 6	41	+ 5	810	+144	39	+ 7
	8. ENGLAND, S.W.	2	2	4 less	77	−11	14·6	− 2·0	58	+ 6	51	+ 5	872	+102	43	+ 5
	9. IRELAND, NORTH	6	5	1 less	100	0	14·2	− 0·2	30	−10	26	− 8	732	+103	36	+ 5
	10. IRELAND, SOUTH	3	1	5 less	85	− 8	14·7	− 2·6	26	−18	22	−16	794	+ 90	39	+ 5
	— CHANNEL ISLANDS	3	1	4 less	94	+ 3	13·5	+ 0·3	64	+ 6	57	+ 5	886	− 16	43	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was of rather an unsettled character. Rain was of frequent occurrence in Scotland, the north of Ireland, and the north-west of England. Elsewhere the rain was mostly confined to Wednesday and Thursday, the other days being generally fine and bright. Snow was experienced on the hills in many parts of Scotland on the 11th and a thunderstorm was observed at Fort William.

Temperature was high at the commencement of the week, but soon fell and subsequently became very low for the time of year, so that the average for the week was as much as 4° or 5° below the mean over Ireland and Scotland, and from 2° to 4° over England. In the Channel Islands, however, the deficit was only 1°. The highest of the maxima, which were recorded on Sunday, ranged from 83° in the Midland Counties and 81° in England E. and S. to between 70° and 63° in Scotland and to between 64° and 62° in Ireland. Later in the week the daily maxima were often below 60°. The lowest of the minima were registered on very irregular dates. They were as low as 35° in Scotland N. and E. and in England S.W., and between 37° and 39° in the English districts generally ; in Ireland the lowest reading was 40°, and in the Channel Islands 47°.

Rainfall was much more than the mean in Scotland N., slightly more in Scotland W., and just equal to the normal in Scotland E. and England N.W. ; in all other districts there was again a deficiency ranging from one tenth of an inch in Scotland W. and Ireland N. to between three and five tenths in the southern parts of our Islands.

Bright Sunshine exceeded the mean, except in Scotland N., and over Ireland. The percentage of the possible duration ranged from 57 in the Channel Islands, 53 in England S., 51 in England S.W., and 50 in England E. to 40 in Scotland E., 28 in Scotland N., and between 26 and 22 in Ireland.

Barometer and Wind.—During the whole of this week the barometer was highest off our western or south-western coasts and the Bay of Biscay. Depressions appeared off the north of Scotland ; one of the systems moved ultimately to Scandinavia, but that observed during the middle of the period travelled South-South-Eastwards down the North Sea, and by Saturday was dispersing over Germany. The main wind current was consequently from between North-West and North, and was frequently fresh to very strong in force, especially in the north and west.

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* This value has been altered owing to the receipt of further information for a preceding week.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	41	53·1	42·7	47·5	− 1·6	39	0	5	1·11	+ 0·67	*	*	*	*
	Stornoway	58	40	53·9	43·4	48·3	− 3·4	44	0	6	1·50	+ 0·94	41·2	− 1·5	33	− 2
	Wick	60	38	54·6	40·1	46·9	− 4·7	42	5	7	1·03	+ 0·63	*	*	*	*
	Lairg Ⓢ	66	35	57·4	39·1	47·6	− 4·5	51	8	5	1·31	+ 0·79	*	*	*	*
	Glencarron Ⓢ	57	39	52·9	40·6	46·3	− 6·5	36	4	6	2·35	+ 1·23	*	*	*	*
	Fort Augustus Ⓢ	60	35	56·9	41·3	48·6	− 5·4	49	2	5	0·90	+ 0·40	31·9	+ 1·5	26	+ 1
	Fort William Ⓢ	61	39	55·7	43·5	49·2	− 5·0	50	0	6	1·75	+ 0·85	39·1	− 1·8	32	− 1
1. SCOTLAND, E.	Nairn	64	35	56·9	40·4	48·1	− 5·9	49	4	6	0·83	+ 0·44	*	*	*	*
	Aberdeen	63	40	57·7	42·3	49·5	− 3·9	53	0	7	0·49	+ 0·06	47·7†	+ 3·9†	39†	+ 3†
	Braemar Ⓢ	61	35	53·4	38·9	45·7	− 5·7	39	9	4	0·89	+ 0·36	*	*	*	*
	Ochtertyre Ⓢ	70	37	62·1	39·7	50·1	− 4·9	66	6	4	0·34	− 0·32	*	*	*	*
	Leith	66	41	61·7	43·9	52·2	− 2·6	71	0	4	0·19	− 0·23	*	*	*	*
	Marchmont Ⓢ	66	35	62·1	39·3	49·9	− 3·1	67	8	3	0·23	− 0·35	55·8	+14·6	46	+12
2. ENGLAND, N.E.	Alnwick Castle	74	41	60·9	43·6	51·7	− 1·4	68	0	2	0·18	− 0·27	*	*	*	*
	Durham	70	38	61·0	41·2	50·4	− 4·3	62	2	1	0·13	− 0·32	48·2	+ 9·1	41	+ 8
	Shields	71	40	60·7	44·6	52·1	− 1·6	71	0	2	0.22	− 0·20	*	*	*	*
	Scarborough Ⓜ	78	42	63·4	46·0	54·1	− 0·6	85	0	4	0·19	− 0·28	60·2	?	51	?
	Spurn Head	77	44	61·0	47·9	54·0	− 1·1	84	0	3	0·16	− 0·21	*	*	*	*
	Fulbeck (Lincolnshire)	78	37	62·8	43·8	52·6	− 4·0	74	0	2	0·10	− 0·35	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	80	41	63·4	45·8	54·0	− 2·4	84	0	4	0·36	− 0·13	53·9	+ 8·3	46	+ 7
	Yarmouth	69	41	59·9	47·6	53·3	− 2·3	79	0	3	0·12	− 0·32	*	*	*	*
	Geldeston	78	39	62·7	43·8	52·6	− 3·6	74	0	3	0·19	− 0·21	50·4	+ 1·4	44	+ 1
	Cambridge	81	40	65·7	44·7	54·5	− 3·1	88	0	2	0·24	− 0·24	67·6	+21·5	59	+19
	Felixstowe	66	42	60·7	46·9	53·3	− 2·4	79	0	2	0·36	?	47·9†	?†	42†	?†
	Rothamsted	77	40	63·9	44·7	53·6	− 2·8	81	0	2	0·15	− 0·34	66·5	+21·9	58	+19
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	83	40	64·3	43·6	53·2	− 3·4	78	0	3	0·07	− 0·43	*	*	*	*
	Loughborough	79	38	63·9	44·4	53·5	− 3·9	81	0	3	0·08	− 0·42	*	*	*	*
	Colly Weston (Stamford)	82	39	64·7	44·9	54·1	− 2·9	85	0	2	0·23	?	*	*	*	*
	Cheadle Ⓜ	73	39	58·7	44·7	51·2	− 3·4	64	0	4	0·42	− 0·23	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	75	40	61·1	46·4	53·2	− 2·8	78	0	4	0·42	− 0·17	43·0	?	37	?
	Churchstoke Ⓜ	73	38	61·0	43·5	51·6	− 3·3	67	0	2	0·21	− 0·29	44·7	− 0·3	38	0
	Hereford (Belmont) Ⓜ	76	37	65·3	45·1	54·5	− 2·9	88	0	1	0·05	− 0·40	*	*	*	*
	Cirencester	76	39	63·6	44·7	53·5	− 2·4	81	0	4	0·14	− 0·36	51·0	+ 4·9	44	+ 4
	Oxford	77	40	64·6	46·1	54·7	− 2·9	89	0	1	0·10	− 0·38	58·5	+13·1	51	+12
5. ENGLAND, S.	London	81	42	67·7	47·1	56·7	− 2·1	103	0	2	0·20	− 0·25	63·3†	+21·4†	55†	+18†
	Swarraton (Alresford) Ⓜ												*	*	*	*
	Dungeness	67	44	63·3	48·9	55·6	− 1·3	95	0	2	0·11	− 0·19	57·8	?	51	?
	Hastings (St. Leonards)	70	43	63·6	47·3	54·9	− 2·1	90	0	3	0·12	− 0·27	65·8	+12·6	58	+11
	Southampton	76	42	68·5	48·2	57·6	− 1·2	109	0	2	0·22	− 0·21	62·4	+12·4	55	+11
	Portland Bill	68	47	60·4	50·6	55·2	− 1·2	92	0	2	0·06	?	*	*	*	*
	Shaftesbury Ⓜ	73	38	63·7	46·2	54·3	− 1·5	86	0	2	0·17	− 0·34	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	60	40	55·4	43·4	49·0	− 5·7	49	0	6	1·63	+ 0·71	*	*	*	*
	Glasgow	63	42	58·6	44·5	51·1	− 3·6	64	0	5	0·39	− 0·25	53·3	+16·1	44	+13
	Glenlee Ⓢ	62	38	58·5	41·1	49·2	− 5·3	54	3	5	0·65	− 0·09	*	*	*	*
	Douglas (Isle of Man)	62	40	57·6	43·1	49·9	− 4·7	55	0	4	0·59	+ 0·05	48·8	− 2·4	42	0
7. ENGLAND, N.W.	Newton Reigny	67	39	58·7	41·7	49·6	− 4·3	54	1	6	0·59	?	39·9	?	34	?
	Stonyhurst	66	43	58·4	45·7	51·6	− 4·0	67	0	4	0·58	− 0·15	50·2	+ 5·2	43	+ 5
	Blackpool Ⓜ	63	43	58·9	46·6	52·3	− 3·9	72	0	4	0·27	− 0 23	54·0	+ 9·0	46	+ 8
	Manchester (Prestwich)	72	41	60·5	44·0	51·7	− 3·9	68	0	5	0·42	− 0·26	40·6	?	35	?
	Liverpool Obsy. (Bidston)	64	44	58·3	47·9	52·7	− 4·1	75	0	5	0·43	− 0·05				
	Chester (Hawarden Bridge)	70	43	59·6	46·9	52·8	− 4·4	76	0	6	0·50	?	*	*	*	*
	Llandudno Ⓜ	64	44	58·6	48·7	53·3	− 3·4	79	0	4	0·91	+ 0·47	49·5	+ 3·4	43	+ 3
	Holyhead	59	45	56·4	47·3	51·5	− 4·2	67	0	5	0·42	− 0·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	74	35	63·9	44·3	53·4	− 2·9	80	0	3	0·25	− 0·39	*	*	*	*
	Pembroke	59	47	57·7	48·6	52·8	− 2·6	76	0	2	0·09	− 0·36	47·8	− 6·2	42	− 5
	Clifton	75	44	63·7	49·6	56·2	− 1·0	99	0	2	0·29	− 0·22	*	*	*	*
	Bath	74	39	64·3	46·0	54·5	− 3·2	88	0	2	0·18	?	53·8	?	47	?
	Arlington (N. Devon)	68	41	59·6	45·6	52·1	− 3·0	71	0	3	0·24	− 0·46	*	*	*	*
	Cullompton Ⓜ	75	41	64.8	45·9	54·7	− 2·6	89	0	2	0·16	− 0·36	55·3	+ 7·2	49	+ 8
	Falmouth	67	46	60·7	50·2	55·1	− 1·9	92	0	2	0·15	− 0·42	68·2	+13·8	60	+12
	Plymouth	65	47	62·2	51·1	56·3	− 1·9	100	0	3	0·04	− 0·42	62·2	+11·7	55	+10
9. IRELAND, N.	Malin Head	54	41	53·1	45·4	49·0	− 5·2	49	0	6	0·73	?	*	*	*	*
	Londonderry	61	42	56·0	45·0	50·1	− 6·1	57	0	6	0·69	+ 0·07	*	*	*	*
	Edenfel (Omagh)	56	42	54·3	45·0	49·3	− 5·1	51	0	5	0·44	− 0·21	*	*	*	*
	Blacksod Point	56	45	54·9	47·6	51·0	− 4·3	63	0	4	0·13	?	*	*	*	*
	Markree Castle	58	42	56·4	46·4	51·1	− 3·2	64	0	6	0·46	− 0·27	27·4	−12·1	23	−11
	Armagh	62	42	58·7	44·8	51·3	− 3·9	65	0	6	0·24	− 0·31	32·2	− 8·2	28	− 6
	Donaghadee	62	41	56·9	44·4	50·2	− 4·5	57	0	6	0·58	+ 0·08	*	*	*	*
10. IRELAND, S.	Dublin	64	43	60·3	46·9	53·1	− 4·0	78	0	3	0·06	− 0·39	32·1	−14·0	28	−12
	Parsonstown	61	40	58·3	45·0	51·2	− 4·7	64	0	4	0·16	− 0·41	23·1	−16·9	20	−14
	Kilkenny	62	40	59·6	45·3	52·0	− 4·2	70	0	2	0·14	− 0·40	*	*	*	*
	Roche's Point	63	45	60·4	49·3	54·5	− 2·6	88	0	0	—	− 0·70	*	*	*	*
	Valencia	59	47	56·9	50·3	53·4	− 2·8	80	0	6	0·20	− 0 59	22·2	−24·0	19	−21
	Killarney	?	42	?	47·4	?	?	?	0	5	0·24	− 0·43	*	*	*	*
	Foynes	61	43	57·2	47·4	52·0	− 4·1	70	0	2	0·07	− 0·52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	47	60·1	51·7	55·6	− 1·3	95	0	2	0·07	− 0·33	62·5	?	55	?
	Jersey	75	48	63·6	52·3	57·6	− 0·6	109	0	3	0·06	− 0·38	67·0	+ 9·6	60	+ 8

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

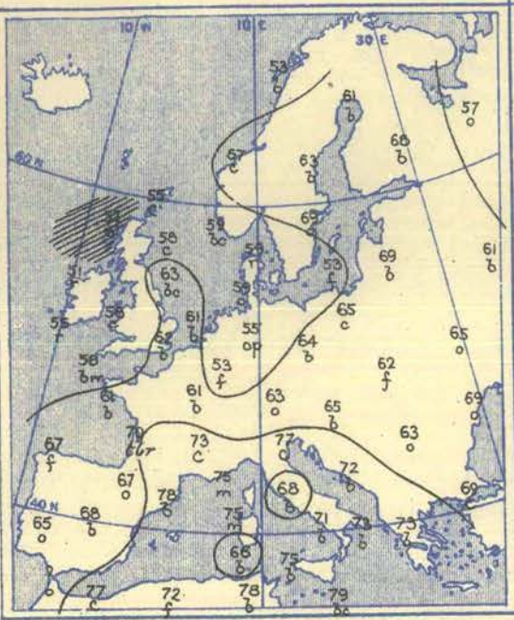
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

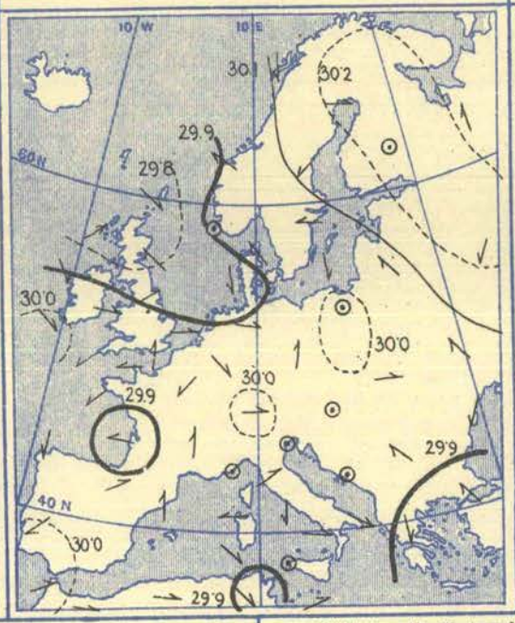
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 9th June.

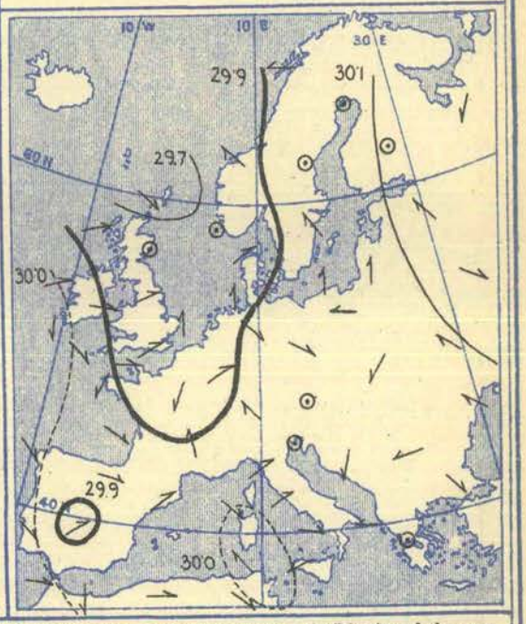
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over England and the greater part of the Continent, but cloudy over Denmark, the Baltic and the south of Scandinavia with rain in several places. Dull also over Ireland and Scotland and all the south-western parts of France, with rain in the west of Ireland and a thunderstorm at Rochefort. A little rain falling later over the northern parts of our Islands generally, and slight local showers in the south; thunder and lightning occurring at some stations in the east and south-east of Great Britain and thunderstorm with heavy rain locally over the south of France generally.

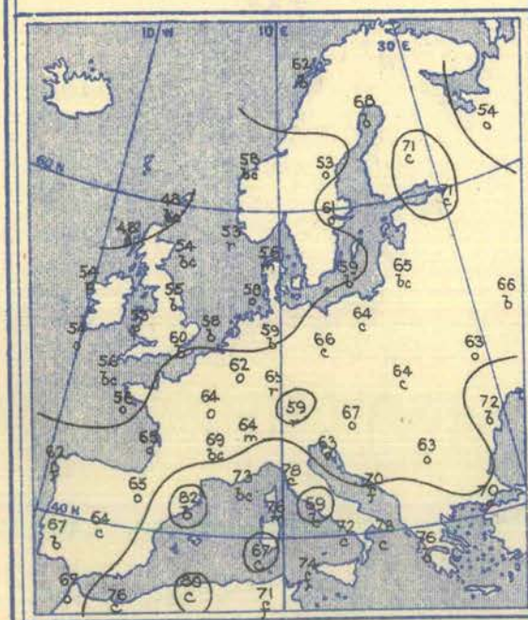
Temperature risen generally but fallen at several of our own western and northern stations. Morning readings highest, 79° at Malta, 78° at Barcelona and la Calle and 77° at Lesina and Nemours, above 70° at most of the Mediterranean and Adriatic stations, and above 65° over central England and also in some parts of Scandinavia and northern Russia. Lowest, 51° at Blacksod Point and 52° at Stornoway, Malin Head and Donaghadee. Rising during day to 75° and upwards at several of the English stations and to 81° in London; exceeding 80° in many parts of central and southern Europe, and reaching 88° at Toulouse and Marseilles.

Wind light from the Westward over the northern and eastern parts of our Islands and also over the Netherlands; Northerly on our south-west coasts; Easterly or North-Easterly over the Channel and the northern parts of France; variable over the Spanish Peninsula and the south of France. Easterly (South-Easterly to North-Easterly) over Scandinavia; Southerly or South-Easterly over Denmark and eastern Germany; variable in Austria; Northerly or North-Westerly over southern Italy. North-Westerly breezes setting in later on all our own west and south-west coasts; no important change occurring elsewhere.

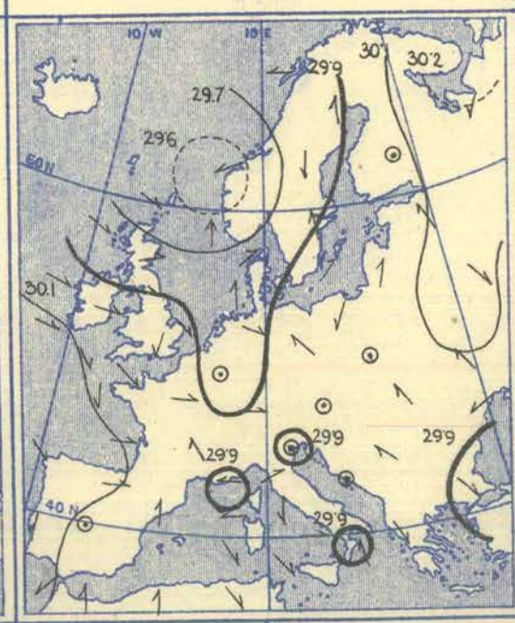
Barometer highest, 30·2 ins. and upwards in an anticyclone over northern and central Russia; 30·0 ins. and less in smaller areas lying respectively over eastern and southern Germany, the south-western parts of the Spanish Peninsula and off the south of Ireland. Lowest, 29·8 ins. and less in a large shallow depression lying over and to the northward of Scotland and also in a small secondary system over Denmark; 29·9 ins. and less in another disturbance over the west of France. Scotch depression subsequently spreading southwards over the North Sea; French disturbance moving north-eastwards and partially filling up.

Monday, 10th June.

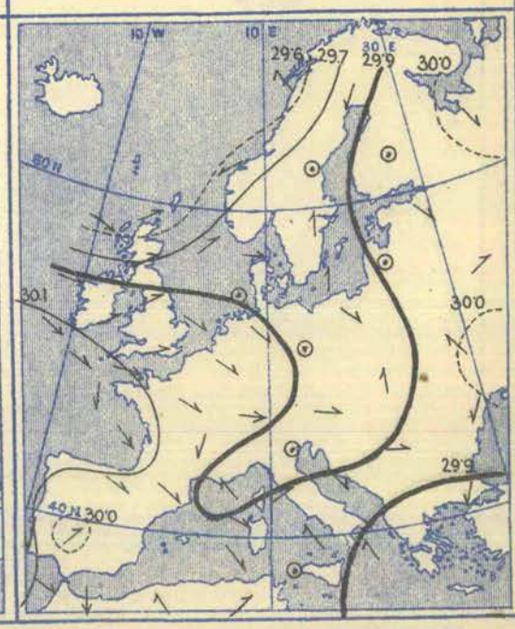
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in most parts of Great Britain, but showery in Ireland. Cloudy or dull over the western and central parts of the Continent generally, with rain in several isolated places; fine over southern Europe as well as at many of the Scandinavian stations. Rain falling later in most parts of Ireland and Scotland, and also in several parts of Denmark, Germany and Scandinavia. Thunderstorms occurring in the south of France and also at Nemours.

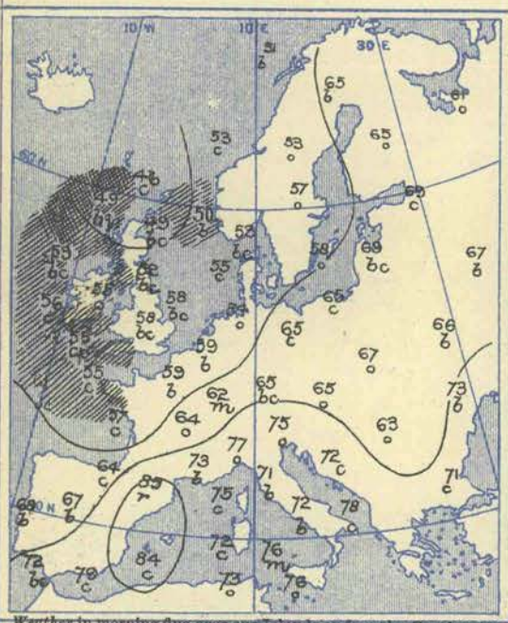
Temperature fallen in most countries but risen over the Netherlands, Germany, Italy and central France. Morning readings highest, 82° at Barcelona, 80° at Algiers, and 76° at Patras and Oran; above 70° at most of the Mediterranean stations as well as in some parts of northern Russia. Lowest, 48° at Sumburgh Head and Stornoway, 50° at Newton Reigny (Penrith) and 51° at Wick and Donaghadee. Remaining below 60° all day on our western and extreme northern coasts but rising to 65° and upwards in many parts of England and to 71° in London. Exceeding 80° over southern Europe generally and reaching 90° at Brindisi.

Wind light to moderate from the Westward or North-Westward over the greater part of the United Kingdom and France, but Northerly in the south-east of England. Southerly in Denmark and the south of Norway, but Easterly in the west of Norway, variable over central and southern Europe generally. No important change occurring during day.

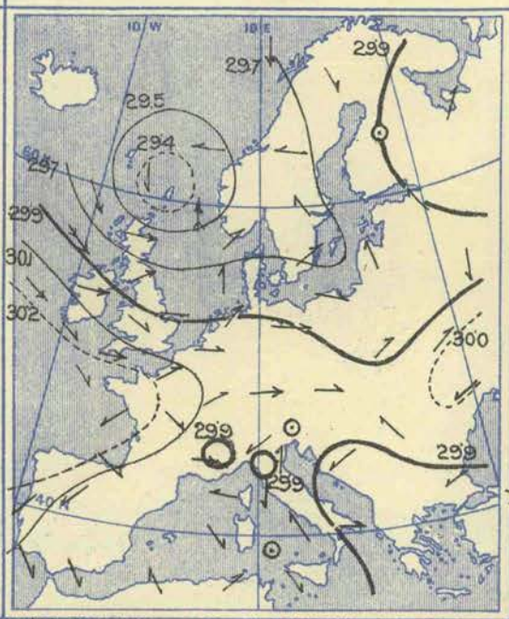
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the extreme south of Ireland, the Bay of Biscay and the western parts of the Spanish Peninsula and also in another system over northern and central Russia. Lowest, 29·6 ins. and less in a large depression lying off the west of Norway; 29·9 ins. and less in a shallow secondary system over the Netherlands and north-western Germany. Both depressions disappearing later, but new disturbance approaching Scotland from the north-westward.

Tuesday, 11th June.

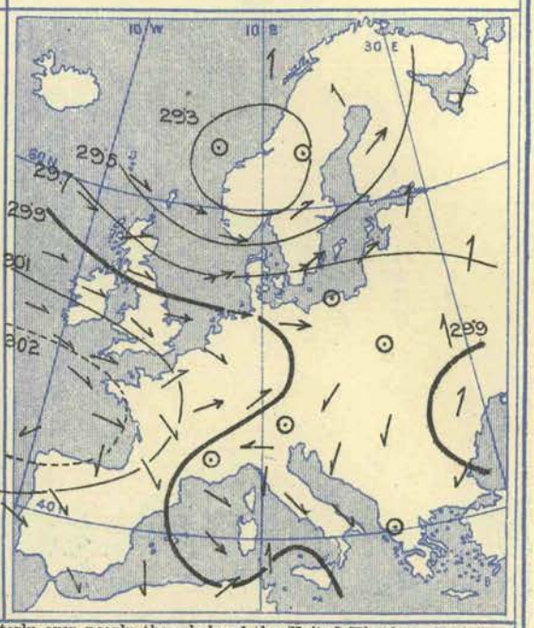
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over our Islands and on the Continent as a whole, but showery on our extreme north-western coasts with hail at Stornoway. Rain also reported at Faerder and thunder at Skudesnaes. Rain falling later over the northern and western parts of our Islands, heavily at Sumburgh and also at Hernösand.

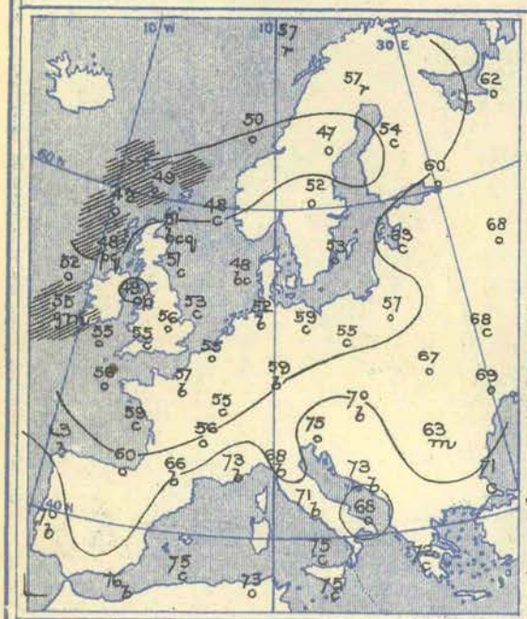
Temperature fallen over western Europe as a whole, but risen a little at most of the central and southern European stations. Morning readings highest, 85° at Barcelona, 84° at Algiers, 79° at Nemours and 78° at Brindisi; above 70° at most of the Mediterranean and Adriatic stations, and also in the extreme south of Russia. Lowest, 45° at Nairn, 46° at Sumburgh Head, 47° at Wick, 49° at Stornoway and Aberdeen and 50° at Donaghadee and Skudesnaes. Rising during day to 65° and upwards in many parts of the United Kingdom, from 70° to 75° over Germany to 77° at Perpignan, 79° at Lorient. Exceeding 80° over southern Europe generally and exceeding 85° in many places, but reaching 93° at San Fernando, and 95° at Oran.

Wind Westerly to North-Westerly over nearly the whole of the United Kingdom, France, Germany and the Netherlands, and reaching the force of a gale on our north-western and northern coasts. Southerly over Denmark and the south of Scandinavia, but variable or light from the Eastward elsewhere. Gales moderating later, and wind over Scandinavia becoming Westerly. No important change occurring elsewhere.

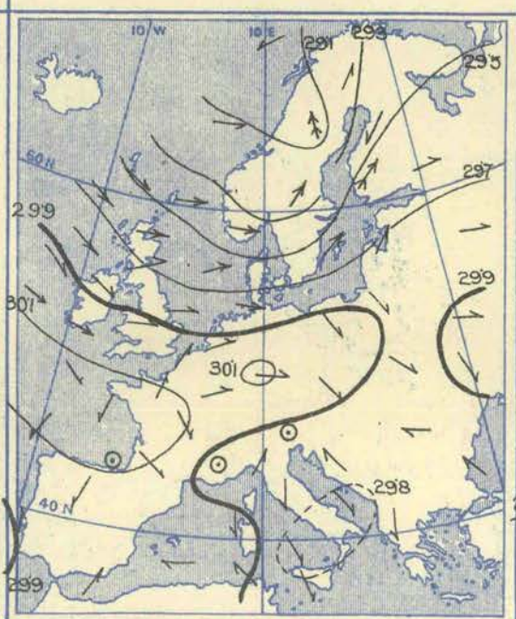
Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the Spanish Peninsula, the Bay of Biscay and the west of France. Lowest, 29·3 ins. and less in a rather deep depression near the Shetlands and 29·9 ins. and less in a shallow area with several minima over the Mediterranean. Low pressure system in the north moving to the westward over Scandinavia during the day, but no material change elsewhere.

Wednesday, 12th June.

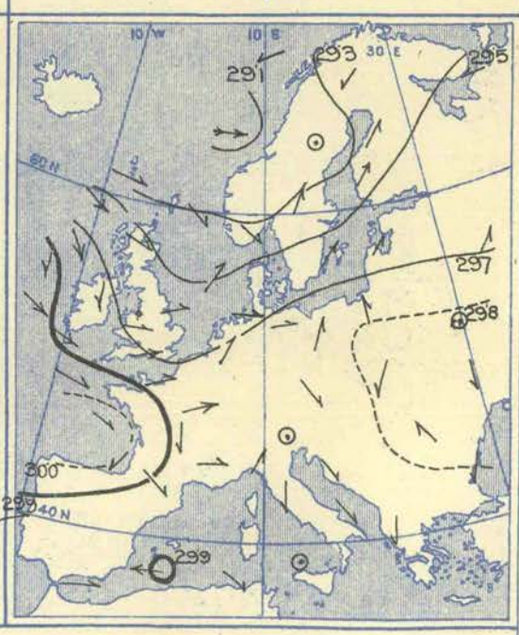
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over southern and south-western Europe; becoming dull, unsettled and rainy over northern Europe and great increase of cloud over the British Islands. Rain falling subsequently over all parts of the British Islands, Norway and the North Sea, as well as in several parts of France and central Europe; much bright sunshine in Scotland, very little over Ireland and England.

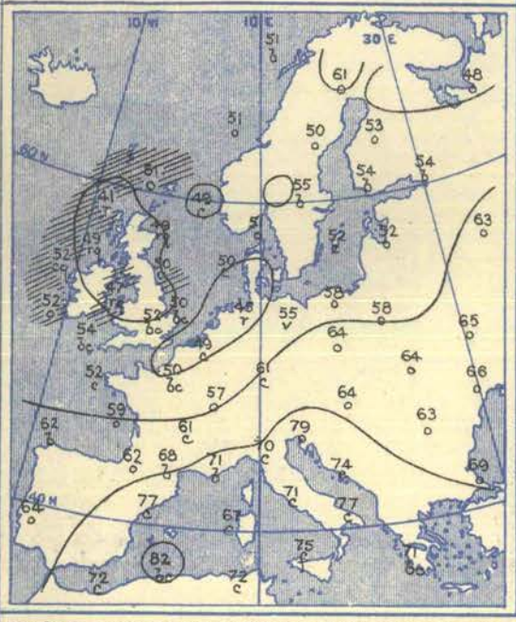
Temperature fallen somewhat over the Continent and the south of our Islands, risen in Scotland. Morning readings highest, (1) 77° at Sfax and Toulon, and above 70° at many Mediterranean stations; (2) 67° at Uleaborg. Lowest, 48° at Malin Head, Newton Reigny and Fanö, 49° at Sumburgh Head and Holyhead. Touching 61° to 60° later on our eastern coasts, 66° in London, 64° at Berlin, 69° at Paris, 82° at Nice, 84° at Marseilles, 94° at Laghouat.

Wind light to moderate in force, variable in direction over the Mediterranean and southern half of Europe. Strong to a gale, from between South and West over northern Europe, and less strong from West and North-West in the north of our Islands, moderate to fresh from West at our southern stations. Increasing somewhat in force over our Islands later and veering a little in direction.

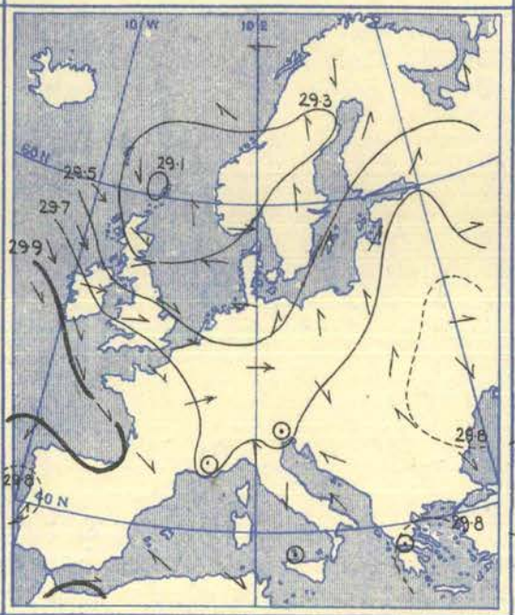
Barometer highest, 30·2 to 30·0 ins. over the Bay of Biscay, France and the south-west of our Islands and exceeding 30·0 ins. over Spain and northern Africa. Lowest, 29·1 ins. and less in a depression over the north of Scandinavia; 30·0 ins. and less over the south of Russia; and below 29·8 ins. over the south of Italy. Gradients steep over the North Sea and Baltic. Falling generally later.

Thursday, 13th June.

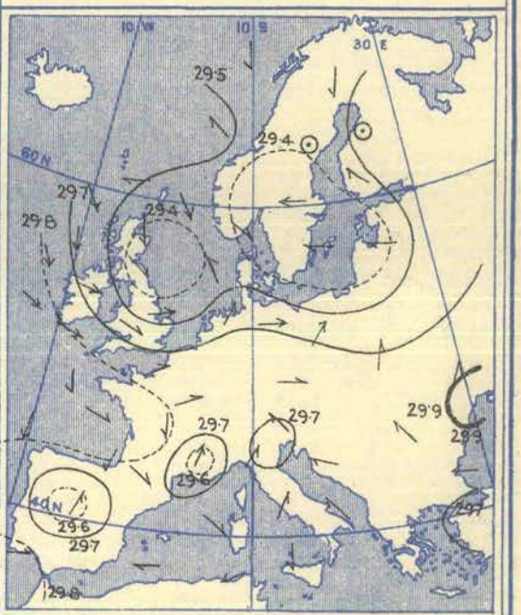
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning much less fair than of late over north-western and northern Europe—rainy nd squally in many parts of our Islands, and rainy in some parts of France and Italy—fine over central Europe. Rain later in all parts of the United Kingdom and central Europe, but falls not large—none in Norway, or at most of the stations in southern Europe; some thunder at Holyhead.

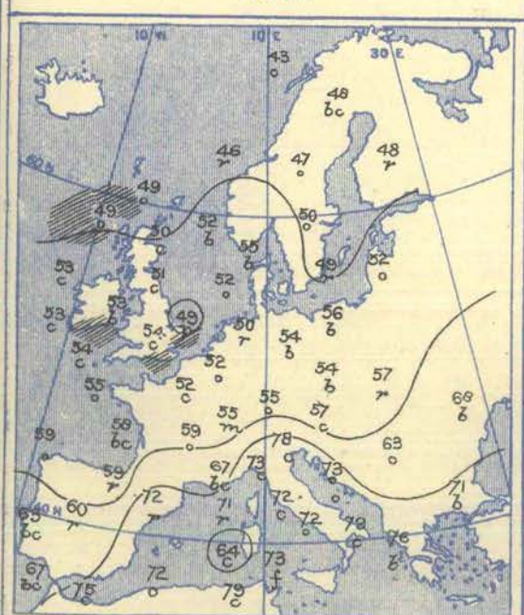
Temperature risen over Scandinavia and central and southern Europe, fallen unsteadily elsewhere. Morning readings highest, 82° at Algiers, and exceeding 70° at many of the stations in southern Europe; above 60° over Germany, 63° at Moscow, 61° at Haparanda, 54° at Scilly. Lowest, 47° at Stornoway and at Holyhead; 46° at Uleaborg, 48° at Archangel. Touching 63° at Leith later, 67° at Paris, 81° in the south of France, but decreasing as a whole, cold over England at night

Wind South-Westerly to Southerly, over northern Europe and Russia, but much decreased in force; Westerly to Northerly in our Islands, strong and squally, North-Westerly to Westerly over France, strong in places; moderate and variable over the Mediterranean. Not much change in our Islands later, but backing to East and North-East over northern Europe and veering to South-West over Germany.

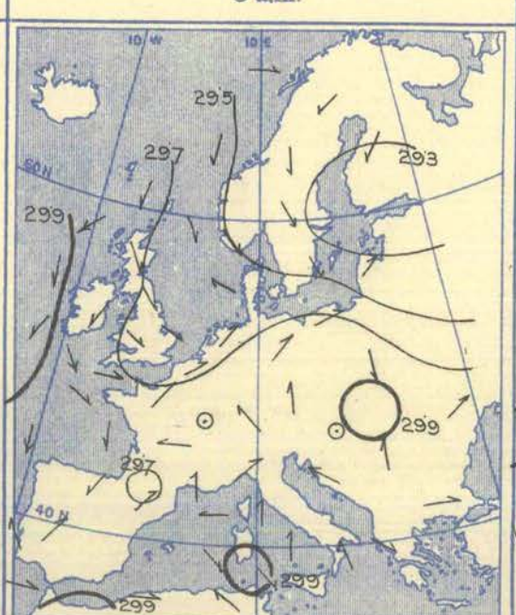
Barometer highest, (1) 29·9 ins. and more over the Bay of Biscay and extreme south-west of Ireland; (2) 29·8 ins. and more over the south of Russia. Lowest, 29·1 ins. and less in small depression near Sumburgh Head; 29·7 ins. and less over the south of France. Distribution of pressure very complex. Gradients, for North-west winds, steep over our Islands. Beginning to rise later at our northern stations, falling slowly in the south. Depression near Sumburgh Head—moving southwards.

Friday, 14th June.

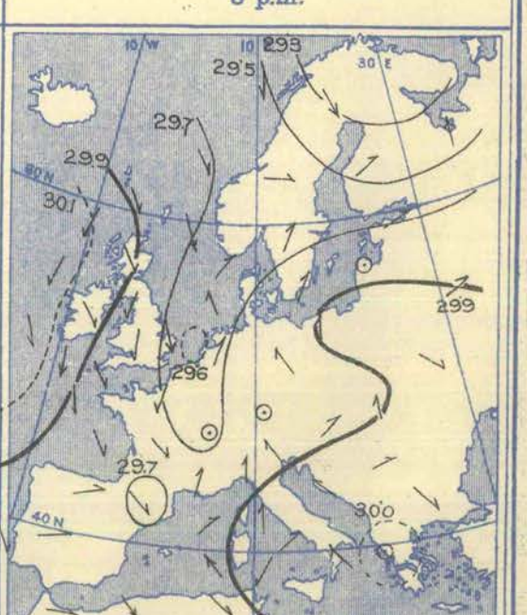
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and changeable all over northern and western Europe, including the British Islands, with rain at many stations; fair over the central and southern countries. A good deal of rain later over the southern parts of France, exceeding an inch and a quarter in places and occasional showers over the North Sea and east of England.

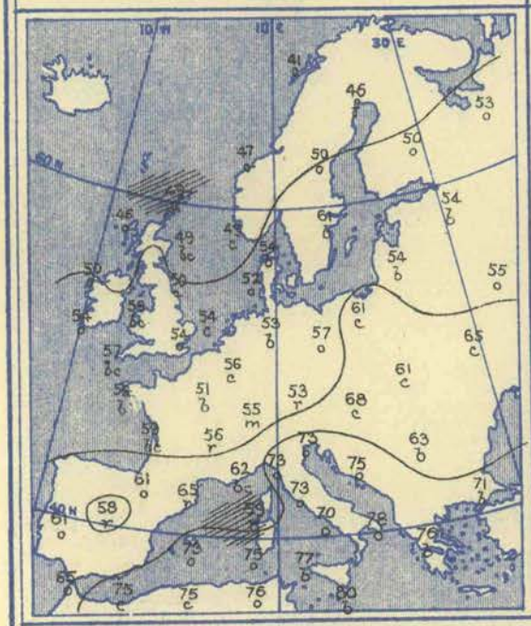
Temperature fallen fast over central Europe. Morning readings highest, 79° at Brindisi and La Calle, 76° at Patras and Algiers, 73° at Leghorn, 68° at Toulon; 59° at Biarritz, about 54° on the south coasts of our Islands. Lowest, 43° at Bodö, 48° at Haparanda, 49° at Sumburgh Head and Stornoway, 50° at Aberdeen. Rising later to 68° at Portland Bill and above 60° at our southern stations, to 70° at Paris, 72° at Berlin, 77° at Perpignan, 84° at Florence and Pesaro, 86° at Cagliari, 100° at Tunis and 104° at Biskra.

Wind mainly Northerly over the extreme north-western and western parts of Europe, South-Westerly over the central countries; Westerly, strong to a gale, over the Baltic, but North-Easterly, light, over Finland. Continuing Northerly in the west later but becoming very variable from between North-West, West, and South over the northern countries and light from the Southward over central and southern Europe.

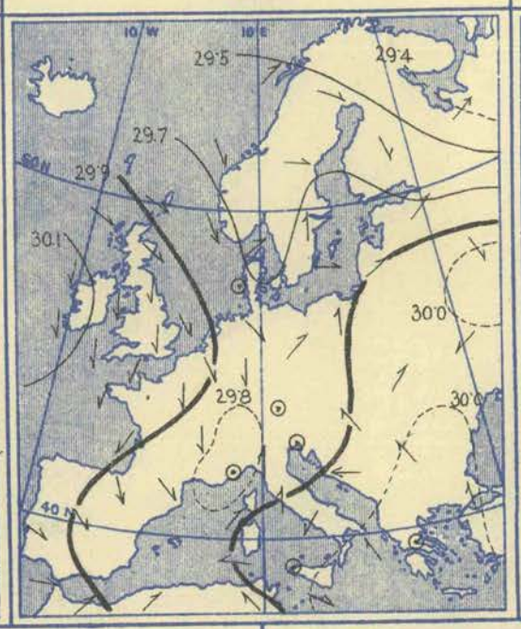
Barometer highest, 29·9 ins. and more off our extreme western coasts, and also at the centre of an anticyclone over central Europe, as well as in the neighbourhood of Cagliari and Palermo. Lowest, (1) 29·2 ins. and less over the south-west of Finland, and 29·5 ins. and less in a shallow depression off the coasts of Norfolk and Holland; (2) 29·7 ins. at Lisbon. A new depression coming over extreme northern Europe at night.

Saturday, 15th June.

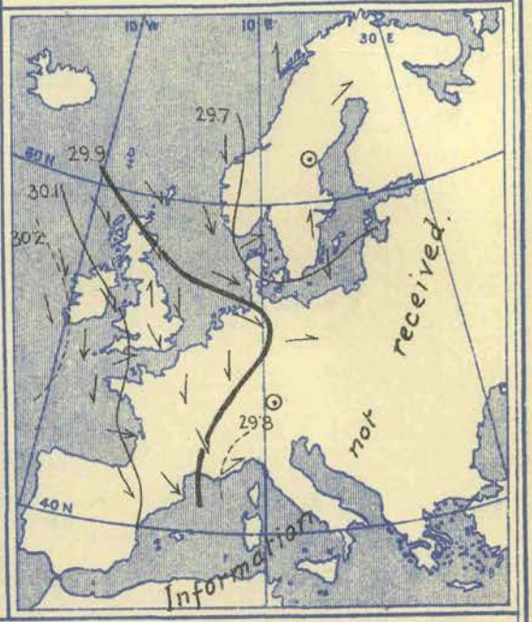
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fair over our Islands generally, but cloudy at most of the Continental stations, with rain over Germany, and the southern parts of France, and also at Madrid. Rain later in large quantities over Italy and Austria, more than 1·5 ins. having been measured at several stations, and as much as 1·85 ins. at Livourne, rain also falling in smaller quantities over Ireland, Scotland and the west of Norway.

Temperature risen a little in most places. Morning readings highest, 80° at Malta, 78° at Brindisi, 77° at Palermo and 76° at La Calle and above 70° at most of the Mediterranean and Adriatic stations. Lowest, 41° at Bodö, 46° at Haparanda and Stornoway, 47° at Christiansund, and 48° at Malin Head. Rising during day to 60° and upwards in many parts of Scotland and England, exceeding 70° in many parts of France, exceeding 80° in Italy and reaching 90° at Brindisi and at several of the Algerian stations.

Wind Northerly to North-Westerly throughout our Islands and moderate in force. Light over France and more Northerly in direction, but Southerly over the south of Scandinavia and at most of the central and southern European stations, variable over Russia. Very little change later, but North-Westerly winds spreading southwards over the Mediterranean.

Barometer highest, 30·1 ins. and upwards over the west of Ireland, and 30·0 ins. and more in two high pressure systems lying respectively over central Russia and the Balkan Peninsula. Lowest, 29·4 ins. and less in a depression over northern Russia, 29·7 ins. and less in a "V" shaped system over the south of Scandinavia, and 29·8 ins. and less in a shallow area lying over the Gulf of Genoa and the south of France. No material change later.

GENERAL NOTES.

At the commencement of this week pressure was high both over the north of Russia and the Atlantic, but later on the Atlantic system became dominant, and Northerly to North-Westerly winds set in all over western Europe, with cold weather, and at times rain. Depressions of no great intensity appeared near the Shetlands, and one of these passed southward and south-eastward over the North Sea, causing gales and strong winds on our coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	23·1	−12·5	18	− 9	BRIGHTON	68·3	+16·3	60	+14
STRATHPEFFER SPA	35·4	− 2·6	29	− 2	WORTHING	68·4	?	60	?
EDINBURGH	42·1	+ 7·1	35	+ 6	BOGNOR	57·4*	?	50*	?
MORPETH	54·2	?	46	?	WATERGATE (Emsworth)	60·7	?	53	?
NEWCASTLE-ON-TYNE	41·0	?	34	?	WESTBOURNE (Emsworth	54·8*	+ 4·8	48*	+ 4
OSWALDKIRK (Yorkshire)	49·8	+11·6	43	+11	VENTNOR HOSPITAL	60·8	+14·8	53	+12
YORK	40·2	+ 0·1	34	0	SOUTHPORT	57·2	?	49	?
LOWESTOFT	53·7	?	47	?	RHYL	*	?	*	?
HOLLESLEY BAY	60·2	?	52	?	COLWYN BAY	43·9	?	38	?
SHEFFIELD	54·1	?	47	?	ABERDOVEY	48·5*	?	42*	?
WORKSOP	50·4	+12·9	43	+11	TENBY	56·1	+ 1·8	49	+ 1
THURCASTON (Leicestershire)	54·9	+14·1	47	+12	NEWQUAY	56·9	+ 4·4	50	+ 3
MARGATE	52·9	+ 9·8	46	+ 8	TORQUAY	61·0	+ 6·0	54	+ 5
BROADSTAIRS	58·8	?	52	?	GUERNSEY	61·4*	+ 2·4	55*	+ 2
EASTBOURNE	63·9	+12·5	55	+10					

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending May 11th, 1901	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	17·5	−20·0	16	−19
,, ,, ,, ,, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	35·4	−13·4	34	−12
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	38·4	?	36	?
,, ,, ,, ,, ,,	Guernsey	—	—	—	—	—	—	—	—	—	—	—	39·8	−15·4	39	−15
,, ,, May 18th, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	62·9	+12·9	59	+12

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 25.] *Third Series.* WEEK ENDING SATURDAY, JUNE 22ND, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those or the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 146)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	39	58·6	45·6	51·6	1 below	67	− 7	0	− 1	698	+ 62	561	− 1
	1. SCOTLAND, EAST	71	34	61·0	45·0	52·5	2 below	74	−15	0	0	734	− 53	657	+45
	2. ENGLAND, N.E.	75	35	63·3	46·9	54·5	2 below	88	−10	0	0	792	− 22	516	+ 9
	3. ENGLAND, EAST	77	35	64·9	48·9	56·4	1 below	101	−10	0	0	893	−105	560	+ 8
	4. MIDLAND COUNTIES	77	33	65·0	47·3	55·6	2 below	95	−15	0	0	946	− 86	591	+32
	5. ENGLAND, SOUTH	78	35	63·7	49·2	55·9	2 below	97	−22	0	0	964	− 48	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	36	60·0	47·6	53·4	2 below	80	−16	0	0	836	− 30	470	+36
	7. ENGLAND, N.W.	72	39	61·4	48·8	54·7	2 below	89	−15	0	0	874	− 49	453	+44
	8. ENGLAND, S.W.	71	43	61·7	49·9	55·4	2 below	94	−15	0	0	1017	− 43	369	+51
	9. IRELAND, NORTH	67	36	60·2	48·2	53·8	2 below	83	−14	0	0	848	−103	374	+11
	10. IRELAND, SOUTH	69	39	61·6	50·0	55·4	2 below	94	−13	0	0	1012	−119	325	+63
	—CHANNEL ISLANDS	70	50	61·8	53·1	57·2	1 below	106	−11	0	0	1207	− 35	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 146.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	11	6 more	112	+ 6	18·7	− 2·8	34	− 3	27	− 3	691	+ 85	32	+ 4
	1. SCOTLAND, EAST	5	12	7 more	96	+ 7	12·7	− 0·4	49	+ 9	40	+ 7	752	+ 89	35	+ 4
	2. ENGLAND, N.E.	5	8	3 more	88	+ 3	9·7	− 0·7	44	+ 3	37	+ 2	773	+118	36	+ 6
	3. ENGLAND, EAST	5	5	1 more	87	+ 1	9·1	− 1·2	40	− 6	35	− 6	858	+ 60	38	+ 3
	4. MIDLAND COUNTIES	5	6	1 more	83	+ 2	10·9	− 0·4	36	− 8	31	− 6	746	+ 79	36	+ 4
	5. ENGLAND, SOUTH	4	3	1 less	75	− 5	10·1	− 1·6	38	−11	33	−10	871	+ 69	40	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	22	14 more	93	− 4	20·2	− 2·3	45	+ 1	38	+ 1	821	+125	38	+ 6
	7. ENGLAND, N.W.	4	9	3 more	90	+ 3	11·7	− 2·1	46	+ 2	39	0	857	+146	39	+ 7
	8. ENGLAND, S.W.	4	15	9 more	81	−10	16·1	− 1·0	27	−27	24	−24	899	+ 75	42	+ 3
	9. IRELAND, NORTH	6	18	12 more	106	+ 2	16·0	+ 1·0	32	− 7	27	− 7	764	+ 96	35	+ 4
	10. IRELAND, SOUTH	5	15	9 more	90	− 6	16·2	− 1·7	25	−18	22	−16	819	+ 72	38	+ 3
	— CHANNEL ISLANDS	4	12	7 more	98	+ 4	14·7	+ 1·0	31	−24	27	−22	917	− 41	42	− 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was distinctly unsettled in all parts of the United Kingdom throughout the whole of this period. Taking the country at large, rainfall was a daily occurrence and towards the close of the week some of the amounts registered in Ireland and the northern parts of Scotland were decidedly heavy. Thunderstorms were reported from a few places on Friday.

Temperature was below the average very generally, an uniform deficit being shown of 2° in all districts except the extreme N. of Scotland, the E. of England and the Channel Islands, where the difference from the mean amounted to 1° only. The highest of the maxima which were mostly registered during Friday or Saturday ranged from 78° in England S. and 77° in England E. and the Midland Counties to 71° in Scotland E. and England S.W., and to between 67° and 69° in Ireland and 66° in Scotland N. and W. The lowest of the minima occurred on Tuesday or Wednesday and showed a reading as low as 33° in the Midlands. Elsewhere they ranged from 34° in Scotland E. and 35° in England N.E., England E. and England S. to 36° in Scotland N. and Scotland W. and to 43° in England S.W. In the Channel Islands the lowest reading was 50°.

Rainfall was in excess of the normal in all districts excepting England S., only slightly so in England E. and the Midland Counties, but as much as nine-tenths in England S.W. and Ireland S., twelve-tenths in Ireland N., and fourteen-tenths in Scotland W.

Bright Sunshine was rather above the mean in Scotland E., England N.E. and Scotland W. and England N.W., but in all other localities it was below the ordinary amount, more particularly in England S.W. The percentage of the possible duration ranged from 40 in Scotland E., 39 in England N.W. and 38 and 37 in Scotland W. and England N.E. respectively, to 33 in England S. and 35 in England E. to 24 in England S.W. and 22 in Ireland S.

Barometer and Wind.—During the early part of the week a large and somewhat shallow depression appeared over the northern portion of the North Sea and the W. of Norway, and at the same time spread over all the northern and eastern parts of the Kingdom, causing a considerable increase in the force of the Northerly wind on our northern and eastern coasts. This depression travelled slowly down the North Sea to the coast of Holland, finally dispersing over Germany. On Tuesday an entire change took place in the distribution of pressure, depressions appearing off our western coasts, with light breezes from the Southward at the Irish and western Scotch stations. These conditions gradually spread over the Kingdom, but at the close of the week a larger and deeper disturbance appeared off our south-west coasts, and, passing over our Islands in a north-easterly direction, caused a considerable increase in the force of the wind over the whole country.

907 | 00. Wt. & S. Ltd.

II.—DATA from which the SUMMARY on page 145 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℳ	60	40	54·4	44·3	49·0	- 1·0	49	0	6	0·79	+ 0·32	*	*	*	*
	Stornoway ℳ	60	42	57·1	44·4	50·3	- 2·2	58	0	5	0·73	+ 0·16	35·2	- 6·8	28	- 6
	Wick ℳ	65	44	57·7	47·7	52·4	- 0·2	73	0	6	1·18	+ 0·76	*	*	*	*
	Lairg ℳ	66	39	60·9	44·2	52·0	- 0·9	70	0	6	1·01	+ 0·48	*	*	*	*
	Glencarron ℳ												*	*	*	*
	Fort Augustus ℳ	66	39	60·9	46·5	53·2	- 1·9	78	0	6	1·20	+ 0·67	21·5	- 8·5	17	- 7
	Fort William ℳ	64	41	60·3	46·2	52·8	- 2·4	76	0	5	1·91	+ 0·97	32·5	- 7·8	26	- 7
1. SCOTLAND, E.	Nairn ℳ	66	37	60·9	45·7	52·8	- 2·2	76	0	6	1·05	+ 0·61	*	*	*	*
	Aberdeen ℳ	69	40	60·0	45·7	52·4	- 2·1	73	0	5	0·72	+ 0·27	54·9†	+11·1†	45†	+10†
	Braemar ℳ	62	34	56·2	42·0	48·6	- 4·2	46	0	5	1·36	+ 0·80	*	*	*	*
	Ochtertyre ℳ	71	37	62·6	45·3	53·4	- 2·9	80	0	5	2·15	+ 1·47	*	*	*	*
	Leith ℳ	70	43	64·7	47·6	55·6	- 0·4	95	0	6	1·01	+ 0·55	*	*	*	*
	Marchmont ℳ	68	37	61·6	43·7	52·0	- 2·3	70	0	5	0·91	+ 0·31	51·5	+10·3	43	+ 9
2. ENGLAND, N.E.	Alnwick Castle ℳ	70	35	63·2	45·5	53·7	- 0·8	82	0	5	0·22	- 0·26	*	*	*	*
	Durham ℳ	67	35	61·5	45·3	52·8	- 3·2	76	0	5	0·91	+ 0·44	44·8	+ 5·8	37	+ 4
	Shields ℳ	70	40	61·6	47·9	54·3	- 0·6	86	0	5	0·97	+ 0·54	*	*	*	*
	Scarborough ℳ	67	41	64·9	45·5	54·5	- 1·4	88	0	6	1·08	+ 0·59	41·9	?	36	?
	Spurn Head ℳ	71	45	61·9	50·1	55·6	- 0·6	95	0	5	0·68	+ 0·31	*	*	*	*
	Fulbeck (Lincolnshire) ℳ	75	36	66·4	46·9	56·0	- 2·0	98	0	6	0·67	+ 0·20	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	77	37	66·5	47·8	56·5	- 1·4	102	0	6	0·49	- 0·03	38·5	- 6·8	33	- 6
	Yarmouth ℳ	67	44	61·1	49·9	55·1	- 1·8	92	0	5	0·86	+ 0·39	*	*	*	*
	Geldeston ℳ	76	42	64·5	49·5	56·5	- 0·9	102	0	5	1·00	+ 0·59	30·5	-18·3	27	-16
	Cambridge ℳ	78	37	69·5	48·9	58·5	- 0·4	116	0	4	0·15	- 0·35	47·5	+ 1·5	41	+ 1
	Felixstowe ℳ	67	43	62·5	50·2	55·9	- 1·4	97	0	5	0·49	?	43·0†	?†	37†	?†
	Rothamsted ℳ	74	35	65·5	47·1	55·7	- 2·0	96	0	4	0·21	- 0·29	41·3	- 3·5	36	- 3
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ℳ	76	33	69·0	44·6	56·0	- 1·9	98	0	5	0·67	+ 0·15	*	*	*	*
	Loughborough ℳ	75	34	67·1	47·4	56·6	- 2·1	102	0	6	0·66	+ 0·16	*	*	*	*
	Colly Weston (Stamford) ℳ	77	37	69·3	46·9	57·3	- 1·0	107	0	5	0·22	?	*	*	*	*
	Cheadle ℳ	70	39	61·6	47·1	53·9	- 1·9	83	0	4	0·75	+ 0·07	*	*	*	*
	Birmingham (Mid. Inst. Obs.) ℳ	70	43	62·3	48·6	55·0	- 2·3	91	0	5	0·74	+ 0·14	24·9	?	22	?
	Churchstoke ℳ	71	42	62·6	46·8	54·2	- 1·9	85	0	4	0·58	+ 0·08	33·8	-11·0	29	-10
	Hereford (Belmont) ℳ	69	44	64·6	48·1	55·8	- 2·6	97	0	3	1·00	+ 0·52	*	*	*	*
	Cirencester ℳ	70	40	63·6	46·9	54·7	- 2·4	89	0	5	0·67	+ 0·15	26·9	-19·1	23	-17
	Oxford ℳ	73	39	64·9	49·3	56·6	- 2·0	102	0	5	0·39	- 0·11	31·6	-13·9	27	-12
5. ENGLAND, S.	London ℳ	78	42	68·0	49·7	58·2	- 2·0	113	0	2	0·45	0·00	32·1†	-10·1†	28†	- 9†
	Swarraton (Alresford) ℳ	75	35	64·2	46·9	55·0	- 1·7	91	0	4	0·28	- 0·20	*	*	*	*
	Dungeness ℳ	69	42	63·1	49·7	55·9	- 2·3	97	0	4	0·25	- 0·05	39·7	?	35	?
	Hastings (St. Leonards) ℳ	72	44	62·8	49·7	55·8	- 2·4	97	0	5	0·31	- 0·09	47·3	- 5·7	41	- 6
	Southampton ℳ	74	44	65·4	49·9	57·1	- 2·7	106	0	4	0·25	- 0·19	27·7	-22·5	24	-20
	Portland Bill ℳ	65	49	60·3	51·3	55·5	- 2·0	95	0	4	0·41	?	*	*	*	*
	Shaftesbury ℳ	68	42	61·9	47·2	54·0	- 2·8	84	0	4	0·30	- 0·22	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart) ℳ	65	42	58·8	47·9	53·0	- 2·7	77	0	6	1·78	+ 0·81	*	*	*	*
	Glasgow ℳ	66	43	61·5	48·0	54·3	- 1·4	86	0	4	2·01	+ 1·34	44·5	+ 7·5	37	+ 6
	Glenlee ℳ	66	36	61·6	47·1	53·9	- 1·6	83	0	3	2·31	+ 1·54	*	*	*	*
	Douglas (Isle of Man) ℳ	60	42	57·9	47·5	52·3	- 3·2	72	0	4	2·53	+ 1·97	46·3	- 3·9	39	- 3
7. ENGLAND, N.W.	Newton Reigny ℳ	69	39	62·6	45·4	53·4	- 1·6	80	0	4	0·73	?	47·8	?	40	?
	Stonyhurst ℳ	70	43	61·4	48·2	54·3	- 2·3	86	0	3	0·88	+ 0·11	46·0	+ 1·2	39	+ 1
	Blackpool ℳ	67	44	62·2	48·8	55·0	- 2·2	91	0	3	0·97	+ 0·45	51·2	+ 6·6	43	+ 5
	Manchester (Prestwich) ℳ	70	40	63·1	47·8	54·9	- 1·7	90	0	3	1·30	+ 0·58	36·7	?	31	?
	Liverpool Obsy. (Bidston) ℳ	71	46	61·7	50·1	55·5	- 2·4	95	0	3	0·77	+ 0·28	46·3	?	40	?
	Chester (Hawarden Bridge) ℳ	72	44	63·0	50·0	56·1	- 2·3	99	0	3	0·58	?	*	*	*	*
	Llandudno ℳ	66	48	59·9	51·2	55·3	- 2·6	93	0	4	0·59	+ 0·13	42·2	- 3·7	36	- 4
	Holyhead ℳ	61	47	56·9	49·1	52·7	- 4·0	75	0	5	1·25	+ 0·78	*	*	*	*
8. ENGLAND, S.W.	Llandovery ℳ	69	43	63·9	47·4	55·1	- 2·2	92	0	5	1·73	+ 1·07	*	*	*	*
	Pembroke ℳ	59	47	57·0	50·1	53·3	- 3·1	79	0	4	1·88	+ 1·41	25·1	-28·7	22	-25
	Clifton ℳ	? 70	47	63·9	51·0	57·0	- 1·4	105	0	4	0·94	+ 0·42	*	*	*	*
	Bath ℳ	71	44	65·0	50·4	57·2	- 1·7	106	0	4	0·74	?	35·4	?	31	?
	Arlington (N. Devon) ℳ	65	44	60·3	47·7	53·6	- 2·6	81	0	4	2·45	+ 1·70	*	*	*	*
	Cullompton ℳ	67	44	64·4	49·3	56·3	- 1·8	100	0	4	0·80	+ 0·28	24·7	-21·9	22	-19
	Falmouth ℳ	66	48	60·2	52·6	56·1	- 1·9	99		4	1·80	+ 1·22	27·8	-26·5	25	-23
	Plymouth ℳ	63	45	59·2	50·8	54·7	- 4·4	89	0	4	1·28	+ 0·80	27·0	-23·5	24	-21
9. IRELAND, N.	Malin Head ℳ	63	46	58·6	48·9	53·4	- 1·7	80	0	6	2·03	?	*	*	*	*
	Londonderry ℳ	66	45	62·8	48·3	55·1	- 2·1	92	0	6	1·81	+ 1·16	*	*	*	*
	Edenfel (Omagh) ℳ	65	40	61·0	47·3	53·7	- 1·5	82	0	5	1·95	+ 1·28	*	*	*	*
	Blacksod Point ℳ	59	46	57·6	49·4	53·2	- 3·1	78	0	5	1 98	?	*	*	*	*
	Markree Castle ℳ	65	36	60·7	47·5	53·6	- 1·6	81	0	6	? 1·91	+ 1·16	32·6	- 5·4	28	- 5
	Armagh ℳ	67	42	62·5	48·3	54·9	- 1·3	90	0	5	1·44	+ 0·86	31·1	- 8·4	26	- 8
	Donaghadee ℳ	65	45	58·0	47·9	52·3	- 3·1	74	0	6	1·58	+ 1·06	*	*	*	*
10. IRELAND, S	Dublin ℳ	69	43	64·8	56·2	57·0	- 0·9	105	0	6	1·17	+ 0·72	32·5	-12·5	28	-11
	Parsonstown ℳ	67	39	62·7	48·3	55·0	- 1·7	91	0	5	2·22	+ 1·64	30·3	- 8·5	26	- 8
	Kilkenny ℳ	69	40	63·0	47·3	54·6	- 2·6	88	0	5	1·51	+ 0·96	*	*	*	*
	Roche's Point ℳ	64	49	60·0	51·4	55·4	- 2·5	94	0	4	1·54	+ 0·84	*	*	*	*
	Valencia ℳ	63	49	59·0	51·9	55·2	- 1·8	92	0	6	1·79	+ 0·99	12·6	-32·5	11	-29
	Killarney ℳ	67	48	60·9	51·3	55·8	- 0·8	97	0	5	0·68	0·00	*	*	*	*
	Foynes ℳ	65	45	61·0	49·8	55·0	- 1·8	91	0	5	1·90	+ 1·30	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℳ	64	51	60·0	53·4	56·5	- 1·1	102	0	6	1·68	+ 1·26	24·8	?	22	?
	Jersey ℳ	70	50	63·6	52·7	57·8	- 1·6	111	0	2	0·67	+ 0·22	40·3	-17·0	36	-15

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

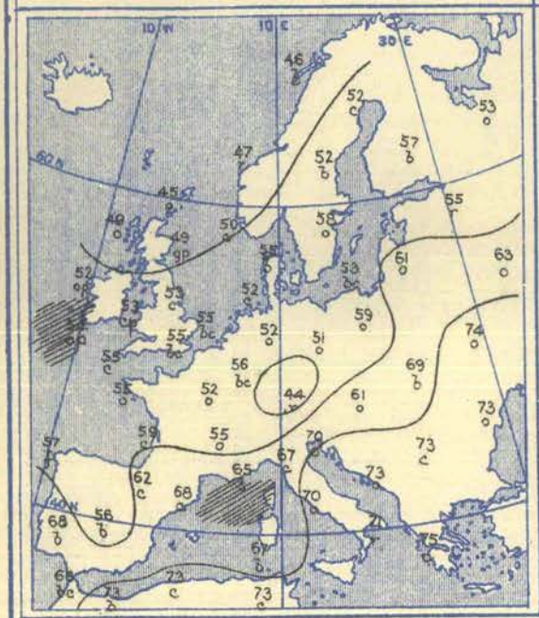
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

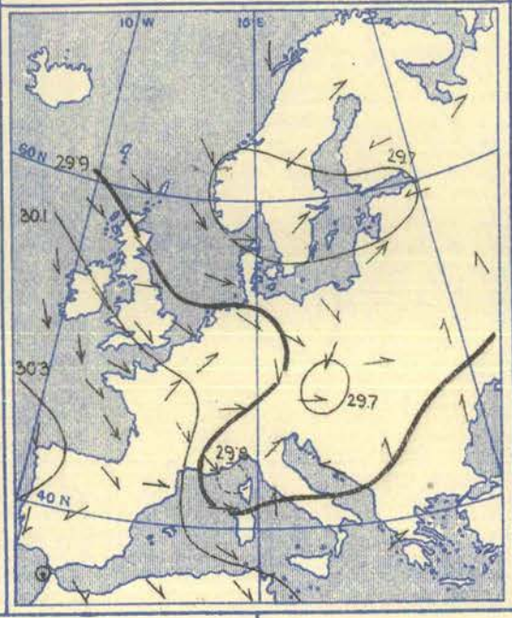
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 16th June.

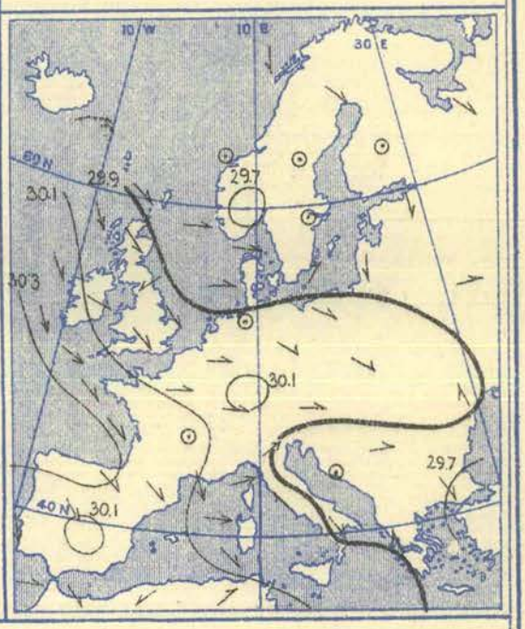
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over our Islands and on the Continent generally, but fine in several parts of southern Europe. Showers reported at many of our own stations, steady rain in Germany, and also over the Gulf of Finland, and a thunderstorm at Turin. Rain falling later over our Islands, Norway, and some parts of Germany. A large amount, 1·9 in., reported locally from Barcelona.

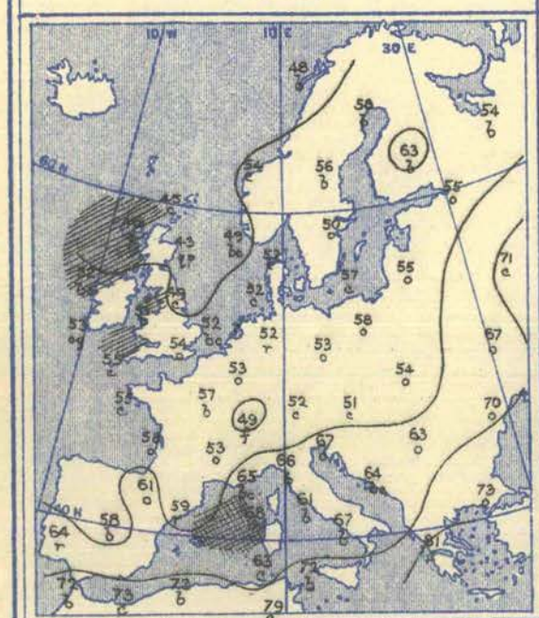
Temperature risen a little over our Islands, fallen over central Europe and the south of Sweden, not changed decidedly elsewhere. Morning readings highest, 75° at Athens, 74° at Kiev, 73° over southern Russia and at several Algerian stations, and 70° or slightly above in Italy. Lowest, 45° at Sumburgh Head. 46° at Bodö, 47° at Christiansund and 49° at several stations in Scotland. Rising during day to between 60° and 65° over England, to 68° at Paris, and to 75° at Nice and Perpignan, exceeding 80° over Italy and Algeria, and reaching 90° at Tunis and Brindisi.

Wind North-Westerly over our Islands and the North Sea and the west of France, Westerly over Germany and the south of Sweden. Two separate cyclonic circulations found, one over Austria and the other over the Gulf of Genoa. Moderate in force generally, but blowing strongly at several of the Mediterranean stations, and also at Riga. No great change later, but wind freshening considerably on our own north-western coasts.

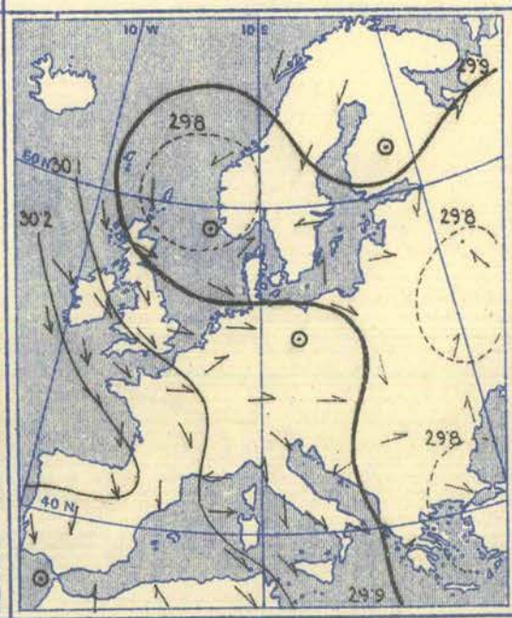
Barometer highest, 30·3 ins. and upwards over the north-western part of the Spanish Peninsula. Lowest, 29·7 ins. and less in two low pressure systems lying over Scandinavia and the Gulf of Finland, and Austria respectively, and 29·8 ins. and less in another area over the Gulf of Genoa. Austrian depression dispersing later, and shallow low pressure appearing over central Spain, no material change elsewhere.

Monday, 17th June.

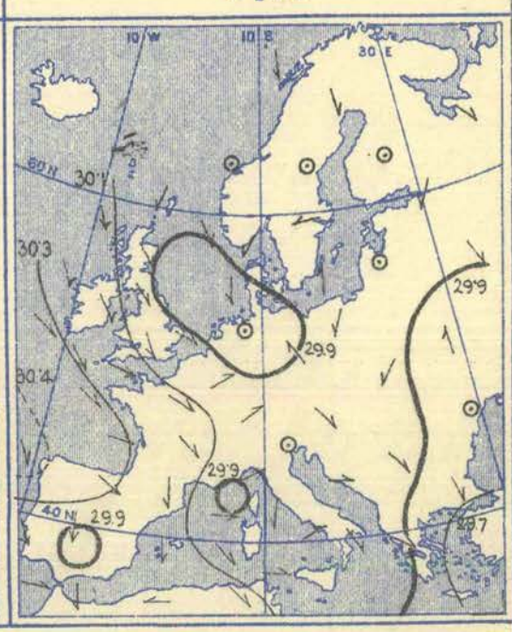
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair as a whole over our Islands, France and the Mediterranean, but a good deal of cloud prevailing, rain falling in some parts of Scotland and also at Cuxhaven and Barcelona. Rain later over Scotland, the east of England and also in Holland, a heavy fall occurring at the Helder; large quantities also reported from some southern European stations, as much at 2·11 ins. being measured at Barcelona, and 1·06 at Florence.

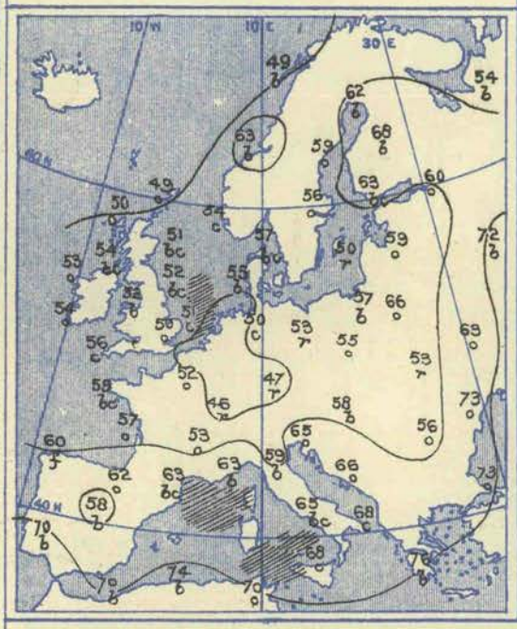
Temperature fallen a little in most places. Morning readings highest, 81° at Athens, 80° at Patras, 79° at Sfax, 75° at Odessa, 73° at several Algerian stations, 72° at Palermo, and 71° at Brindisi; not exceeding 56° over central Europe. Lowest, 43° at Aberdeen, 45° at Sumburgh Head, 46° at Stornoway, and 48° at Nairn and Bodö. Rising later to rather above 60° at several stations in our Islands to 73° in the south of France to between 75° and 82° in Italy, and reaching 84° at Tunis.

Wind North-Westerly to Northerly, fresh or strong over our Islands, North-Westerly to Westerly moderate over France, Southerly light in the southern parts of Sweden, very variable over the Continent generally. No important change later, beyond some increase in the strength of the Northerly winds on our east and south-east coasts.

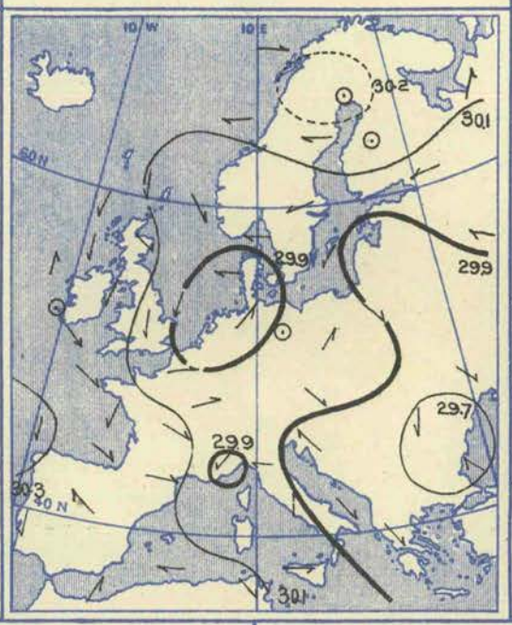
Barometer 30·3 ins. and upwards off our south-west coasts, the Bay of Biscay and the north of Spain. Lowest, 29·7 ins. and less in a rather large depression lying over the North Sea and the west of Norway, 29·8 ins. and less in a shallow system over the east of Russia, and 29·9 ins. and less in a small centre over the south of Italy. Depression over North Sea moving southwards later, and small disturbance appearing over central Spain in evening.

Tuesday, 18th June.

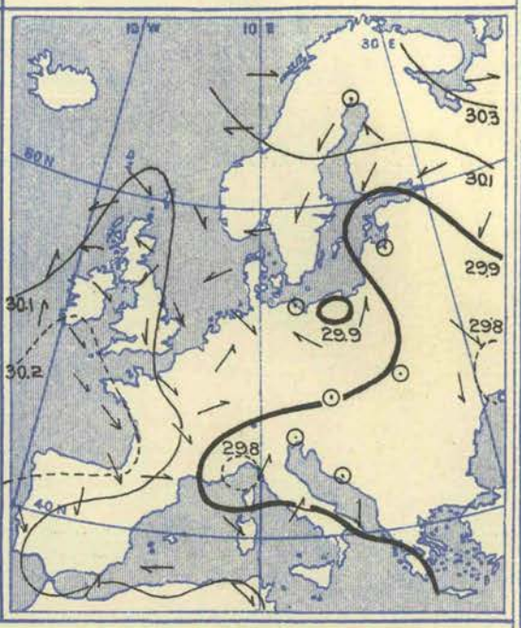
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at several stations in Scotland and the north of England, and also over northern and some parts of southern Europe, but dull or cloudy in most other places, with rain at Memel, Wisby and the Helder. Rain later on our northern and western coasts, Sweden, and some parts of Germany and France, heavily at Besançon.

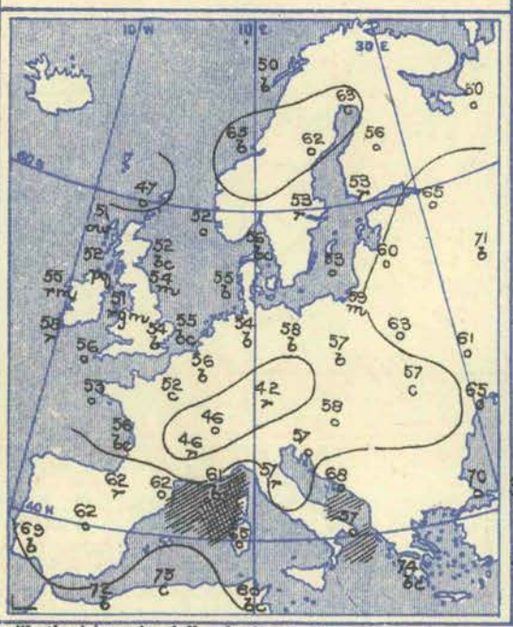
Temperature changed irregularly, but risen somewhat at most of our own stations. Morning readings highest, 84° at Palma, 76° at Patras, 75° at Athens, 74° at Algiers, and 73° at Odessa and Constantinople, above 65° at most of the southern European stations. Lowest, (1) 49° at Sumburgh Head and Bodö, and 50° at Stornoway and in London; (2) 48° at the Helder, 49° at Münster, 51° at Frankfort and 53° at several stations in central Europe. Rising during day to between 60° and 64° over Scotland and England, to between 70° and 75° over the south of France, and Italy, touching 82° at Cagliari, and reaching 86° at Oran. Falling over England during the night, the minima on the grass being 29° at Loughborough and 33° at Oxford.

Wind still Northerly over Scotland and England, but decreasing in force, light Southerly air appearing in Ireland. Cyclonic circulations shown over Holland, the Gulf of Genoa, and also over the Balkan Peninsula. Moderate Easterly over northern Europe and Scandinavia. Southerly winds in west commencing to spread over our Islands later, but no great change at the Continental stations.

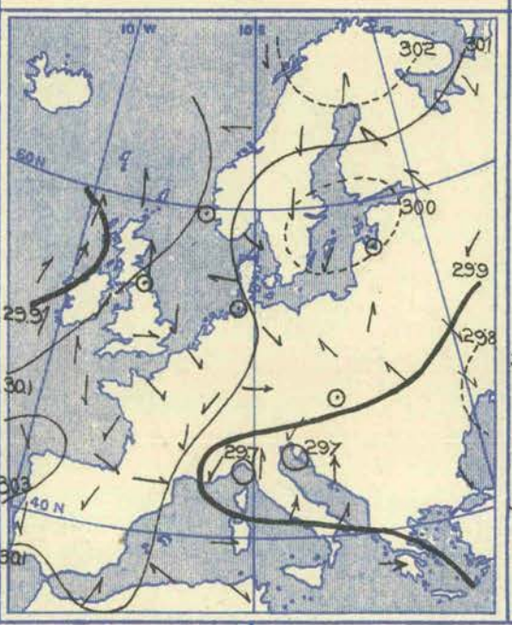
Barometer highest, 30·3 ins. and upwards off the west coast of Spain, and 30·2 ins. and upwards over the north of Scandinavia. Lowest, 29·8 ins. and less in a depression over Holland and the southern portion of the North Sea, 29·9 ins. and less over the south of France and the Gulf of Genoa, and 29·7 ins. and less in a very shallow system lying over the Balkan Peninsula. Depression over Holland moving away to the eastward later and gradually dispersing.

Wednesday, 19th June.

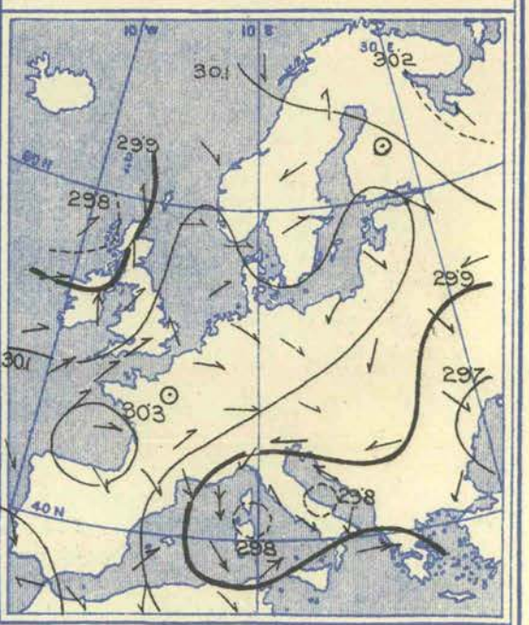
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy at all our own western stations, and also in Germany, the north of Italy and the south of France, fair in most other places, but a considerable amount of clouds prevailing. Rain falling later over our Islands generally as well as in Austria, Italy, and parts of Scandinavia and Russia, heavily in some places, as much as 2·76 ins. measured at Hango, 1·73 in. at Nicolaieff, and 1·26 in. at Pesaro.

Temperature fallen somewhat over the Mediterranean, and also over the Gulf of Finland, risen a little in most other places. Morning readings highest, 76° at Oran, 75° at Algiers and Sfax, 74° at Patras, 73° at Athens and 71° at Moscow, above 60° at most of the Mediterranean stations, and also in the north of Scandinavia. Lowest, (1) 42° at Munich, 46° at Belfort and Lyons; (2) 47° at Sumburgh Head, 50° at Bodö and Archangel and 51° at Stornoway. Rising during day to between 60° and 67° in many parts of the United Kingdom, to rather above 70° over the south of France and at Berlin. Exceeding 75° over southern Europe generally and touching 81° in Greece, but reaching 86° at Aumale and 93° at San Fernando.

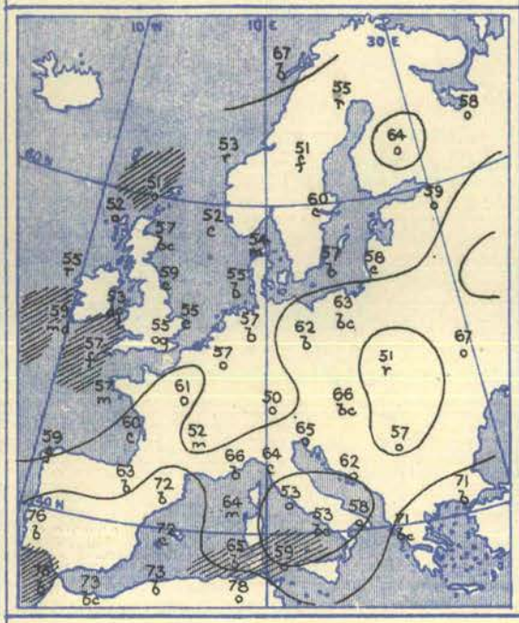
Wind Southerly, moderate to strong at our western stations, Northerly in Sweden, and over the greater part of France and Germany. A cyclonic circulation reported over the Mediterranean. Wind veering to the Westward later in Ireland, and increasing to a gale over Corsica and Sardinia. No important change elsewhere.

Barometer highest, 30·3 ins. and upwards off the north-west of Spain, and 30·2 ins. and less over Lapland. Lowest, 29·8 ins. and less off our western coasts and in a rather complex depression lying over Italy, also in a shallow system over the south of Russia and 30·0 ins. and less over the Baltic and the Gulf of Finland. Anticyclone moving westwards later but no material change elsewhere.

Thursday, 20th June.

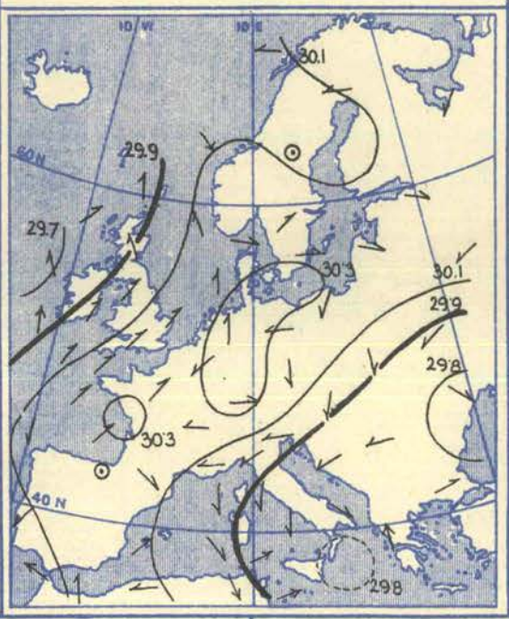
Temperature and Weather.

8 a.m.

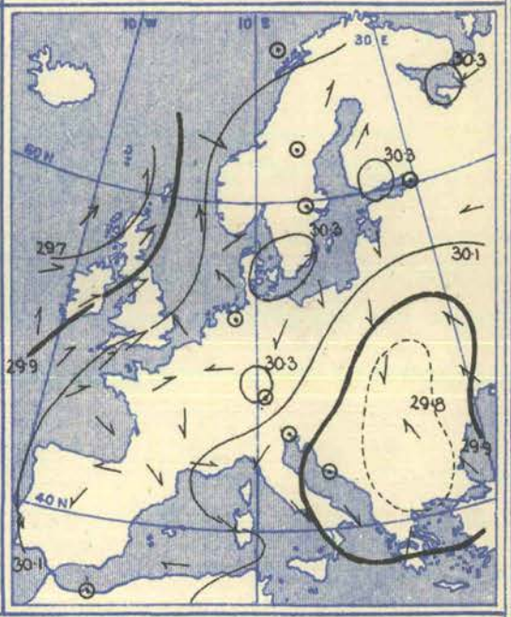


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the United Kingdom, and the greater part of France, Scandinavia and Russia, with rain and fog at many western stations, fair in most parts of southern Europe. Rain later over the whole of our Islands, also in Italy and Austria, as much as 0·8 ins. measured at Palermo, 1·06 in. at Lemberg, and 1·54 in. at Cracovie.

Temperature fallen over Italy, but risen in most other places. Morning readings highest, 78° at La Calle, 76° at Lisbon and San Fernando, 75° at Sfax, 73° at Algiers and Kharkov, and 72° at Palma, Barcelona and Moscow. Lowest, (1) 50° at Munich, 51° at Lemberg and 52° at Munich. (2) 51° at Hernosand and Sumburgh Head and 52° at Stornoway and Skudesnaes. Rising during day to between 60° and 67° over our Islands to 76° at Paris, 82° at Rochefort, 84° at Perpignan, 86° at Bilbao, and reaching 88° at Lisbon and Madrid.

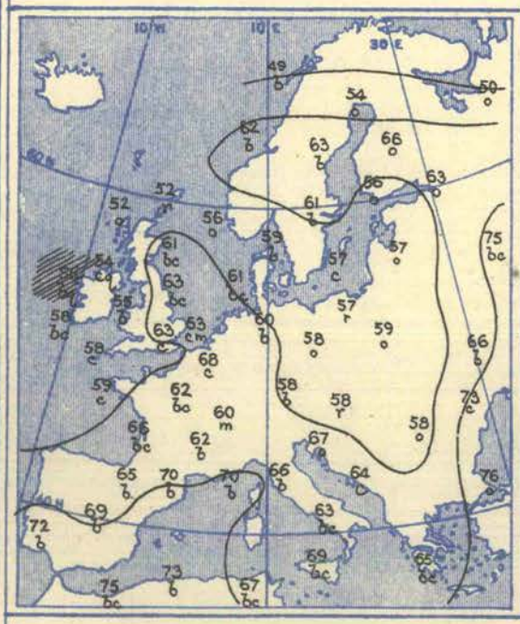
Wind Southerly to South-Westerly over the whole of our Islands, the west and north of France and the North Sea, and moderate to fresh in force. Variable over Russia, but moderate to strong from the Northward over Italy and the Mediterranean. Strong Southerly winds prevailing at Patras. No great change later, but winds drawing into Westward in the west of Ireland.

Barometer highest, 30·2 ins. and more in a large anticyclone stretching from Spain across France and Germany to the Baltic and east of Russia, 29·7 ins. and less off the west coast of Ireland, and also in a shallow system lying over the Black Sea, and 29·8 ins. and less in a depression off the south of Italy. Depression in west moving northwards later, that over the Black Sea, moving westwards over southern Russia.

Friday, 21st June.

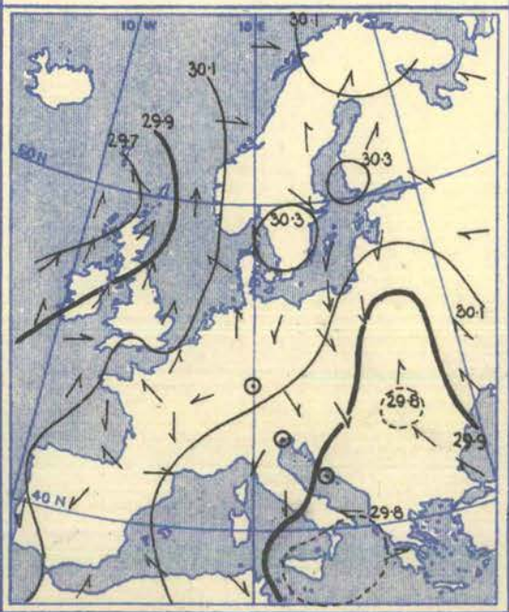
Temperature and Weather.

8 a.m.

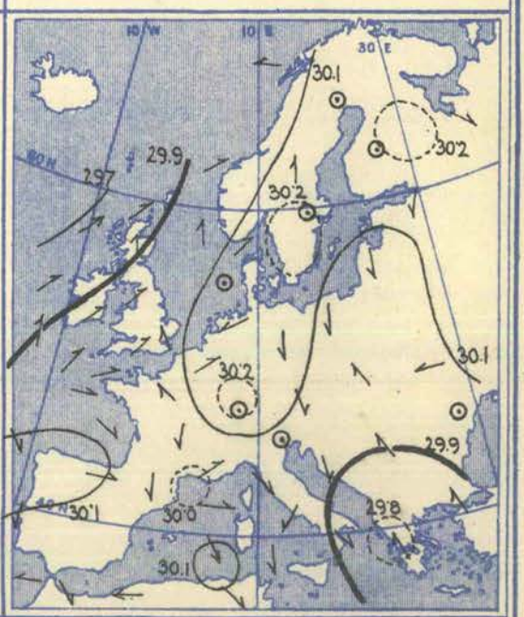


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in the north of Scotland, with rain at Sumburgh Head, and also in some parts of Germany and Austria; fine in most other places, but squally in the west of Ireland. Rain later over the United Kingdom except in Wales, also at some of the German and Austrian stations, as much as 1·50 in. measured at Cracovie.

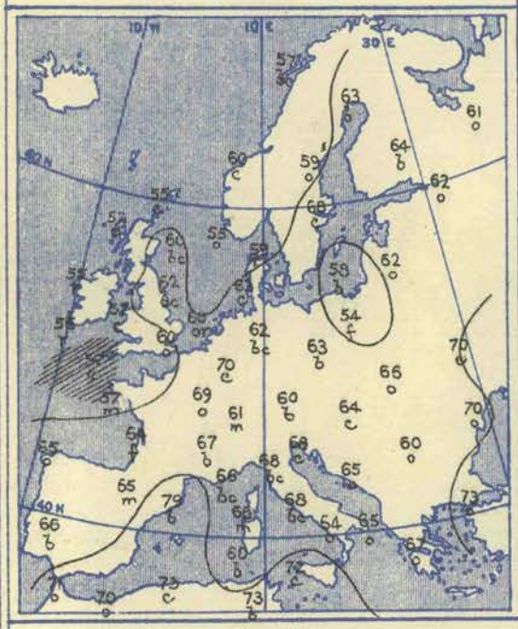
Temperature risen in most parts of western Europe. Morning readings highest, 76° at Constantinople and Barcelona, 75° at Nemours and Moscow, 73° at several Algerian stations and at Palma, above 65° over southern Europe generally. Lowest, 49° at Bodö, 52° at Sumburgh Head and Stornoway, and 54° at Haparanda and Malin Head. Rising during day to between 70° and 74° over the midland and north-eastern districts of England, and to 77° in London; exceeding 80° in most parts of France, touching 84° at Marseilles and in Paris, and reaching 86° at Perpignan, Rochefort and Aumale.

Wind Southerly to South-Westerly, moderate to fresh in force over our Islands and the North Sea, Easterly to South-Easterly over Germany and France, variable over central Europe, but chiefly from the Northward over the Mediterranean. Increasing to a strong breeze from South-Westward at Stornoway later; no important change elsewhere.

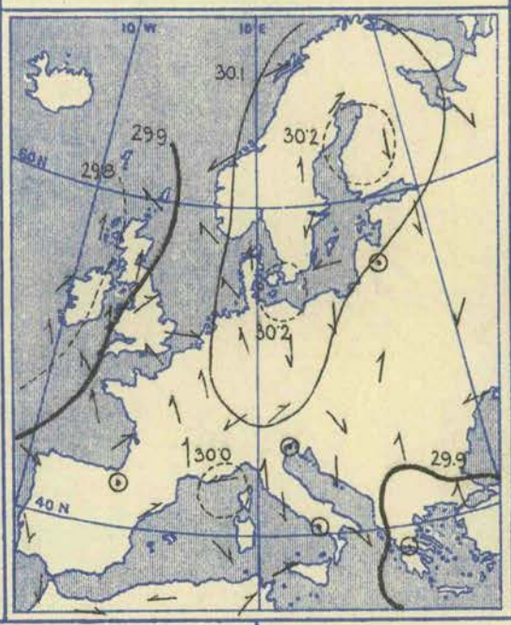
Barometer highest, 30·2 ins. and more in an anticyclone lying over the Baltic, the south of Scandinavia, Denmark and western Germany. Lowest, 29·7 ins. and less off our north-western coasts, and 29·8 ins. and less in two shallow areas lying respectively over Austria and the south of Italy. Depression off our north-western coasts, moving northwards later. Italian disturbance moving eastwards over Greece, that over Austria dispersing.

Saturday, 22nd June.

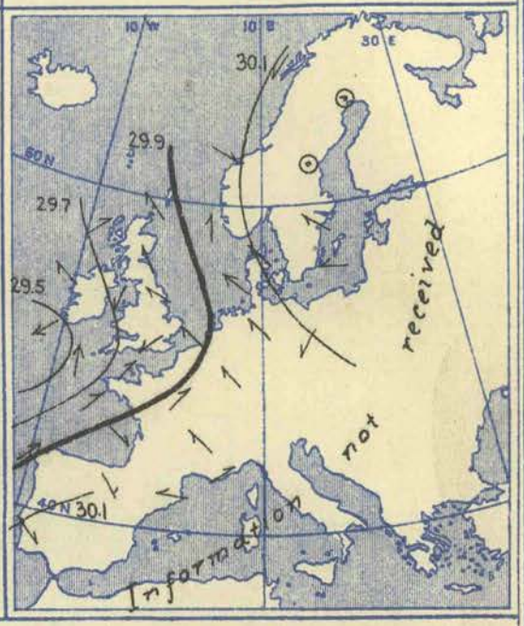
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fine at most of the Continental stations, and also on the north-east coast of England, but dull or cloudy elsewhere, with rain in the south-east of England, and also at some of our western stations. Heavy rain over nearly the whole of our Islands later, amounts exceeding half an inch measured in many places, and as much as 1·19 in. at Malin Head, and 1·40 in. at Parsonstown.

Temperature changed very little over our Islands, but risen slightly on the Continent. Morning readings highest, 79° at Barcelona, 74° at Perpignan, 73° at Algiers, Constantinople and Kiev and 72° at Palermo; above 60° over the south-east and east of England and on the Continent generally. Lowest, 52° at Stornoway, 54° at Malin, and 55° at Donaghadee and Blacksod. Rising during day to 78° in London, 75° at Loughborough and 73° at Oxford; reaching 82° at Frankfurt, 83° at Brussels, 87° at Lyons, and touching 91° at Perpignan and 92° in Paris.

Wind mainly Southerly and South-Easterly over our Islands, light to moderate in force, chiefly light from the Northward on the Continent. Increasing from the Southward and South-Eastward over the Bay of Biscay and our south-western stations later.

Barometer highest, 30·1 ins. and more in an anticyclone over Scandinavia, north-western Russia, Denmark and Germany. Lowest, 29·8 ins. and less over the western parts of Ireland and Scotland, 29·9 ins. and less over Greece and Asia Minor, and 30·0 ins. and less in a very shallow centre over the Gulf of Genoa. Somewhat deep depression appearing off our south-west coasts later.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	48·0	+13·3	38	+11	BRIGHTON	46·6	- 5·7	41	- 5
STRATHPEFFER SPA	32·6	- 5·2	26	- 4	WORTHING	47·6	?	42	?
EDINBURGH	39·8	+ 5·6	33	+ 4	BOGNOR	42·4*	?	37*	?
MORPETH	54·0		45	?	WATERGATE (Emsworth)	30·0	?	26	?
NEWCASTLE-ON-TYNE	42·3	?	35	?	WESTBOURNE (Emsworth	31·6*	-18·4	28*	-16
OSWALDKIRK (Yorkshire)	38·8	+ 0·8	33	+ 1	VENTNOR HOSPITAL	34·3	-11·6	30	-10
YORK					BOURNEMOUTH	33·8	?	30	?
LOWESTOFT	39·5		34	?	SOUTHPORT	52·2	?	44	?
HOLLESLEY BAY	42·3	?	37	?	RHYL	*	?	*	?
SHEFFIELD	51·8	?	44	?	COLWYN BAY		?		?
WORKSOP	42·3	+ 4·8	36	+ 4	ABERDOVEY	44·9*	?	38*	?
THURCASTON (Leicestershire)	42·0	+ 1·7	36	+ 1	TENBY				
MARGATE	42·0	- 1·2	37	- 1	NEWQUAY	19·9	-32·9	18	-29
BROADSTAIRS	35·8	?	31	?	TORQUAY	26·5	-28·5	23	-26
EASTBOURNE	41·3	-10·2	36	- 9	GUERNSEY	26·9*	-32·1	24*	-29

*The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending May 25th, 1901	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	94·4	+42·9	86	+39
,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	79·1	?	71	
,, ,, June 1st, ,,	Ochtertyre	70	42	64·4	48·6	56·0	+4·0	98	0	7	2·11	+1·53	—	—	—	—
,, ,, ,, ,,	Manchester	77	47	66·6	50·9	58·3	+5·8	114	0	5	0·38	-0·22	37·0	?	32	
,, ,, ,, ,,	Llandovery	76	47	67·4	51·0	58·7	+5·1	117	0	4	0·68	+0·05	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 26.] *Third Series.* WEEK ENDING SATURDAY, JUNE 29TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS (See p. 152.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	73	43	60·4	48·4	54·0	0 (average)	84	+ 7	0	0	782	+ 69	561	- 1
	1. SCOTLAND, EAST	72	40	63·9	48·1	55·4	0 (average)	94	+ 1	0	0	828	- 52	657	+45
	2. ENGLAND, N.E.	77	44	66·3	49·9	57·5	1 above	109	+ 6	0	0	901	- 16	516	+ 9
	3. ENGLAND, EAST	80	40	68·4	50·0	58·5	0 (average)	116	0	0	0	1009	-105	560	+ 8
	4. MIDLAND COUNTIES	80	39	70·1	48·5	58·6	0 (average)	116	+ 2	0	0	1062	- 84	591	+32
	5. ENGLAND, SOUTH	81	38	69·1	51·9	59·9	1 above	125	+ 2	0	0	1089	-146*	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	73	38	63·7	48·2	55·4	1 below	94	- 4	0	0	930	- 34	470	+36
	7. ENGLAND, N.W.	78	39	65·6	50·4	57·5	0 (average)	109	+ 2	0	0	983	- 47	453	+44
	8. ENGLAND, S.W.	80	37	68·8	50·6	59·1	1 above	120	+ 8	0	0	1137	- 35	369	+51
	9. IRELAND, NORTH	75	43	62·2	49·7	55·6	1 below	95	- 5	0	0	943	-108	374	+11
	10. IRELAND, SOUTH	78	45	64·9	50·9	57·4	0 (average)	108	- 2	0	0	1120	-121	325	+63
	—CHANNEL ISLANDS	78	45	66·5	54·8	60·3	1 above	128	+ 6	0	0	1335	- 29	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	5 less	114	+ 4	18·9	- 3·3	24	-11	19	- 9	715	+ 74	31	+ 3
	1. SCOTLAND, EAST	1	2	4 less	97	+ 5	12·9	- 0·7	42	+ 3	34	+ 2	794	+ 92	35	+ 4
	2. ENGLAND, N.E.	1	1	4 less	89	+ 1	9·8	- 1·1	45	+ 7	38	+ 6	818	+126	36	+ 6
	3. ENGLAND, EAST	1	1	4 less	88	- 1	9·2	- 1·6	75	+29	65	+24	933	+ 88	39	+ 4
	4. MIDLAND COUNTIES	1	1	4 less	84	0	11·0	- 1·3	61	+23	53	+20	807	+102	37	+ 5
	5. ENGLAND, SOUTH	1	3	2 less	76	- 7	10·4	- 1·8	73	+25	64	+22	944	+ 93	41	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	5 less	95	- 6	20·5	- 2·7	41	- 1	34	- 2	862	+124	38	+ 6
	7. ENGLAND, N.W.	1	1	5 less	91	+ 1	11·8	- 2·6	55	+10	47	+ 8	912	+156	39	+ 6
	8. ENGLAND, S.W.	1	3	3 less	82	-13	16·4	- 1·3	66	+13	58	+12	965	+ 89	43	+ 4
	9. IRELAND, NORTH	2	3	4 less	108	0	16·3	+ 0·6	31	- 5	27	- 5	794	+ 90	35	+ 4
	10. IRELAND, SOUTH	1	2	4 less	91	- 9	16·4	- 2·2	39	- 2	34	- 2	858	+ 70	38	+ 3
	— CHANNEL ISLANDS	3	1	4 less	101	+ 4	14·8	+ 0·7	79	+21	70	+18	996	- 20	43	- 1

* ERRATA.—The corresponding values in last week's report should read "-1·8" and "-0·9" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was very fine as a whole, the only rain reported being experienced either at the commencement or quite the end of the period. The latter fall was very heavy, locally, in some parts of the south of England, and was accompanied by thunder and lightning. At Westbourne (Emsworth) as much as 1·07 ins. fell during Saturday night.

Temperature differed very little from the mean. The highest of the maxima were recorded either on the 28th or 29th, and varied from 81° or 80° in most of the English districts to between 78° and 75° in Ireland, and 73° or 72° in Scotland. During the early days of the week the maxima in the extreme north and north-west were often below 60°. The lowest of the minima were registered, as a rule, during the middle of the period, when the thermometer in the shade fell to 37° in England S.W., 38° in England S. and Scotland W., and to 39° in the Midland Counties and England N.W.; elsewhere the lowest readings ranged from 40° in England E. to 45° in Ireland S. and the Channel Islands.

Rainfall was less than the mean in all districts, the deficit in nearly all cases being large.

Bright Sunshine was considerably in excess over England and in the Channel Islands, slightly so in Scotland E. Over Ireland and in the other Scotch districts, however, there was a deficiency. The percentage of the possible duration ranged from 70 in the Channel Islands, 65 in England E., 64 in England S. and 58 in England S.W. to 34 in Scotland E. and Ireland S., 27 in Ireland N., and to 19 in Scotland N.

Barometer and Wind.—At the commencement of the week a rather deep depression had advanced over the United Kingdom from the south-westward producing strong winds or slight gales from the North-Westward in the west and from West or South-West in the south and east. By Tuesday this system had travelled away to the north-eastward and dispersed; an anticyclone had meantime advanced over our Islands from the south-westward, and the winds were light from between West and North-West or North. During the remainder of the week this high-pressure system moved very gradually north-eastwards, and depressions approached our south-western and southern coasts from the Bay of Biscay. With this change the wind became Easterly at all our more southern stations, and finally over the whole Kingdom; in the Channel and on our southern and south-eastern coasts the Easterly current blew freshly or strongly.

207 | 90 Wy. & S., L.
319 | 70 6 | OL.

II.—DATA from which the SUMMARY on page 151 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	46	54·4	47·9	50·9	+ 0·2	62	0	4	0·34	- 0·14	*	*	*	*
	Stornoway	65	47	59·1	47·4	52·9	0·0	76	0	2	0·22	- 0·38	16·0	-23·5	13	-19
	Wick	69	43	61·3	47·7	54·0	+ 0·8	84	0	2	0·11	- 0·34	*	*	*	*
	Lairg Ⓢ												*	*	*	*
	Glencarron Ⓢ	70	47	60·3	48·3	53·9	- 0·2	83	0	2	0·38	- 0·84	*	*	*	*
	Fort Augustus Ⓢ	67	43	63·5	49·2	55·9	+ 0·4	97	0	1	0·04	- 0·54	28·0	+ 0·8	23	0
	Fort William Ⓢ	73	45	63·8	50·0	56·4	+ 0·9	101	0	1	0·13	- 0·87	31·3	- 5·7	25	- 6
1. SCOTLAND, E.	Nairn	68	47	62·9	49·3	55·6	+ 0·1	95	0	1	0·03	- 0·45	*	*	*	*
	Aberdeen	64	44	61·1	50·1	55·2	+ 0·2	92	0	1	0·01	- 0·49	23·5	-18·3	19	-15
	Braemar Ⓢ	64	43	61·3	47·5	54·0	+ 0·7	84	0	2	0·12	- 0·46	*	*	*	*
	Ochtertyre Ⓢ	72	40	67·1	45·6	55·6	- 1·3	95	0	1	0·24	- 0·45	*	*	*	*
	Leith	72	48	66·9	49·9	57·8	+ 1·1	111	0	1	0·48	- 0·02	*	*	*	*
	Marchmont Ⓢ	68	42	61·1	46·0	54·4	- 0·5	87	0	1	0·15	- 0·51	48·5	+ 7·9	40	+ 6
2. ENGLAND, N.E.	Alnwick Castle	70	46	65·1	49·9	57·0	+ 1·7	105	0	0	—	- 0·50	*	*	*	*
	Durham	71	44	66·1	48·9	56·9	0·0	104	0	1	0·01	- 0·49	44·6	+ 5·9	37	+ 4
	Shields	68	46	64·1	50·6	56·9	+ 1·2	104	0	2	0·05	- 0·43	*	*	*	*
	Scarborough Ⓜ	73	44	66·3	48·0	56·5	- 0·2	102	0	2	0·27	- 0·25	38·6	?	33	?
	Spurn Head	68	51	65·1	53·6	59·0	+ 1·8	119	0	0	—	- 0·38	*	*	*	*
	Fulbeck (Lincolnshire)	77	44	70·8	48·5	58·9	+ 0·2	118	0	1	0·03	- 0·45	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	76	40	70·7	48·7	58·9	+ 0·3	118	0	1	0·04	- 0·50	72·1	+27·0	62	+23
	Yarmouth	68	49	63·6	53·0	57·9	+ 0·1	111	0	1	0·03	- 0·47	*	*	*	*
	Geldeston	69	42	66·1	49·5	57·2	- 1·1	106	0	1	0·37	- 0·08	72·9	+24·3	63	+20
	Cambridge	80	45	73·8	48·6	60·3	+ 0·7	128	0	1	0·02	- 0·48	79·8	+33·8	69	+29
	Felixstowe	69	47	65·5	52·7	58·7	+ 0·4	116	0	1	0·17	?	77·9†	?†	68†	?†
	Rothamsted	75	43	70·5	47·3	58·1	- 0·4	113	0	2	0·18	- 0·34	74·5	+28·8	65	+25
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	42	71·7	48·0	59·0	+ 0·5	119	0	0	—	- 0·54	*	*	*	*
	Loughborough	80	43	71·0	48·6	59·0	- 0·4	119	0	2	0·02	- 0·48	*	*	*	*
	Colly Weston (Stamford)	79	45	73·9	48·1	60·1	+ 1·2	127	0	1	0·07	?	*	*	*	*
	Cheadle Ⓜ	75	43	66·4	48·9	57·0	+ 0·6	105	0	1	0·02	- 0·66	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	76	48	67·9	51·3	59·0	+ 0·9	119	0	1	0·05	- 0·55	56·5	?	49	?
	Churchstoke Ⓜ	77	39	68·1	45·0	55·8	- 0·8	97	0	2	0·19	- 0·33	64·1	+20·1	55	+17
	Hereford (Belmont) Ⓜ	78	40	70·2	47·9	58·3	- 0·9	114	0	2	0·11	- 0·37	*	*	*	*
	Cirencester	78	44	70·3	49·1	59·0	+ 1·4	119	0	2	0·53	- 0·02	73·8	+28·1	64	+24
	Oxford	77	46	71·7	49·4	59·8	+ 0·4	125	0	3	0·19	- 0·33	77·2	+31·7	67	+27
5. ENGLAND, S.	London	76	47	72·6	52·0	61·6	+ 0·7	137	0	1	0·25	- 0·22	68·0†	+25·8†	59†	+22†
	Swarraton (Alresford) Ⓜ	76	38	71·4	48·0	58·9	+ 1·5	118	0	1	0·27	- 0·23	*	*	*	*
	Dungeness	67	47	65·1	52·9	58·6	- 0·3	116	0	1	0·45	+ 0·13	71·5	?	63	?
	Hastings (St. Leonards)	74	49	67·6	53·3	60·0	+ 1·1	126	0	2	0·65	+ 0·23	80·4	+27·9	71	+24
	Southampton	81	48	73·3	52·8	62·3	+ 1·7	142	0	1	0·19	- 0·29	70·8	+20·8	62	+18
	Portland Bill	66	50	63·7	54·0	58·5	+ 0·3	11	0	1	0·07	?	*	*	*	*
	Shaftesbury Ⓜ	77	45	70·3	50·3	59·6	+ 2·2	123	0	1	0·17	- 0·39	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	73	46	63·0	49·1	55·6	- 0·6	95	0	3	0·51	- 0·51	*	*	*	*
	Glasgow	67	45	62·4	49·3	55·4	- 0·9	94	0	1	0·42	- 0·26	31·2	- 4·5	26	- 4
	Glenlee Ⓢ	73	38	65·0	44·9	54·3	- 1·7	86	0	2	0·15	- 0·65	*	*	*	*
	Douglas (Isle of Man)	72	44	64·3	49·4	56·3	+ 0·4	100	0	1	0·01	- 0·59	50·0	+ 1·4	42	0
7. ENGLAND, N.W.	Newton Reigny	74	39	65·9	47·3	56·0	+ 0·4	98	0	2	0·12	?	41·0	?	34	?
	Stonyhurst	72	42	65·6	48·4	56·4	- 0·8	101	0	1	0·07	- 0·75	48·5	+ 5·3	41	+ 4
	Blackpool Ⓜ	72	43	65·0	51·2	57·6	- 0·3	109	0	1	0·01	- 0·56	53·5	+ 9·8	45	+ 7
	Manchester (Prestwich)	76	43	67·4	48·6	57·4	+ 0·2	108	0	1	0·07	- 0·66	42·4	?	36	?
	Liverpool Obsy. (Bidston)	76	50	66·1	53·4	59·3	+ 0·8	121	0	1	0·02	- 0·50	60·7	?	52	?
	Chester (Hawarden Bridge)	78	44	67·9	50·0	58·3	- 0·3	114	0	2	0·23	?	*	*	*	*
	Llandudno Ⓜ	71	49	63·5	52·6	57·7	- 0·8	110	0	1	0·02	- 0·47	61·3	+16·8	53	+14
	Holyhead	71	50	63·4	52·0	57·3	+ 0·1	107	0	1	0·04	- 0·45	*	*	*	*
8. ENGLAND, S.W.	Llandovery	80	37	72·6	47·3	59·1	+ 1·5	120	0	2	0·13	- 0·58	*	*	*	*
	Pembroke	72	49	64·6	53·7	58·8	+ 1·9	118	0	1	0·42	- 0·07	60·6	+ 2·8	53	+ 1
	Clifton	79	47	? 71·0	? 52·3	? 61·0	? + 1·9	? 133	0	1	0·05	- 0·50	*	*	*	*
	Bath	79	43	71·1	49·9	59·8	+ 0·2	125	0	2	0·37	?	72·6	?	64	?
	Arlington (N. Devon)	74	43	67·1	49·4	57·6	+ 0·7	109	0	2	0·57	- 0·23	*	*	*	*
	Cullompton Ⓜ	78	40	71·7	48·2	59·1	- 0·1	120	0	1	0·80	+ 0·26	65·8	+20·6	58	+18
	Falmouth	67	49	63·9	52·8	58·0	- 0·7	112	0	1	0·06	- 0·04	74·5	+21·1	66	+18
	Plymouth	73	48	68·0	51·5	59·2	- 0·5	120	0	1	0·11	- 0·39	61·5	+12·0	54	+10
9. IRELAND, N.	Malin Head	63	48	58·3	49·7	53·7	- 2·0	82	0	2	0·22	?	*	*	*	*
	Londonderry	74	45	63·1	49·4	55·8	- 1·6	97	0	1	0·17	- 0·51	*	*	*	*
	Edenfel (Omagh)	75	43	64·3	48·1	55·6	0·0	95	0	3	0·24	- 0·46	*	*	*	*
	Blacksod Point	71	50	62·7	53·1	57·6	+ 1·0	109	0	1	0·06	?	*	*	*	*
	Markree Castle	75	46	64·5	49·4	56·4	+ 0·8	101	0	2	1·32	+ 0·55	32·8	- 2·7	28	- 3
	Armagh	71	45	63·7	48·8	55·7	- 0·9	96	0	1	0·03	- 0·57	29·7	- 7·3	25	- 7
	Donaghadee	62	46	59·1	49·7	54·1	- 2·1	85	0	2	0·10	- 0·45	*	*	*	*
10. IRELAND, S	Dublin	72	50	65·2	52·4	58·4	- 0·2	115	0	0	—	- 0·49	43·1	0·0	37	0
	Parsonstown	78	46	64·6	49·4	56·5	- 0·7	102	0	1	0·01	- 0·59	33·8	- 3·1	29	- 4
	Kilkenny	73	45	65·9	48·7	56·7	- 0·9	103	0	0	—	- 0·56	*	*	*	*
	Roche's Point	70	47	62·9	51·6	56·9	- 1·5	104	0	1	0·18	- 0·51	*	*	*	*
	Valencia	73	49	64·1	50·9	57·0	- 0·4	105	0	2	0·22	- 0·60	40·1	- 2·1	35	- 2
	Killarney	73	42	62·9	50·1	56·1	- 1·0	99	0	3	1·18	+ 0·48	*	*	*	*
	Foynes	77	50	? 68·7	53·0	? 60·3	? + 3·2	? 128	0	1	0·02	- 0·56	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	63·0	54·3	58·4	0·0	115	0	3	0·17	- 0·27	78·2	?	69	?
	Jersey	78	45	70·0	55·3	62·1	+ 2·2	141	0	2	0·05	- 0·42	79·6	+22·9	71	+20

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

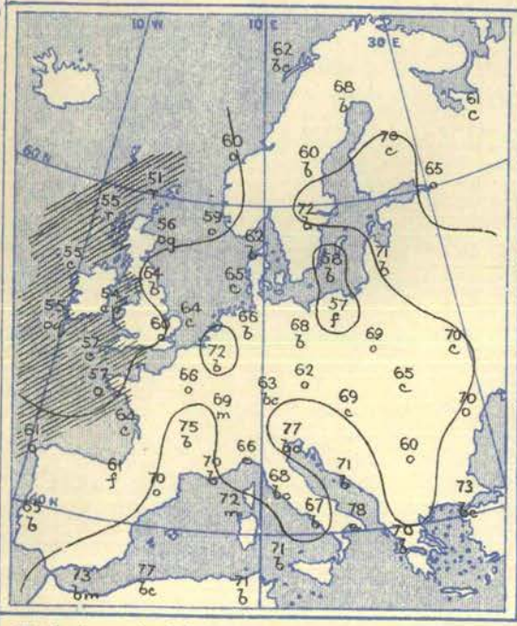
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

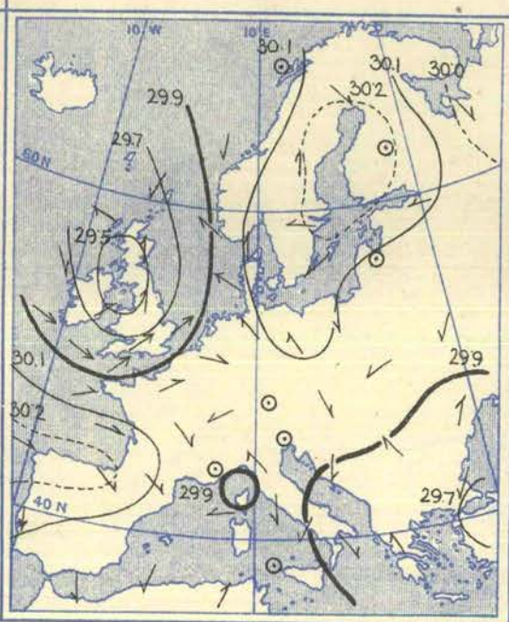
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 23rd June.

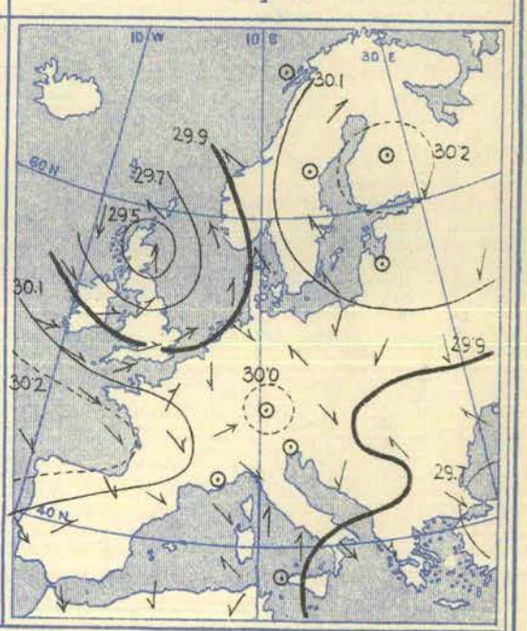
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair at most of the Continental stations, but cloudy or dull over our Islands, with rain at many of our northern and western stations, heavily at Leith. Rain falling later over nearly the whole of our Islands, and also in some parts of Austria.

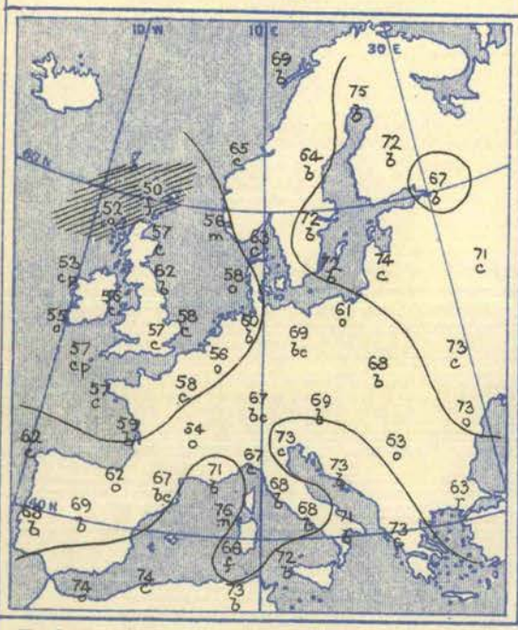
Temperature fallen somewhat over our Islands, risen on the Continent. Morning readings highest, (1) 78° at Brindisi, 77° at Algiers and Lesina, 76° at Barcelona, 75° at Sfax, 74° at Odessa and 73° at Nemours and Oran; (2) 72° at Stockholm, 71° at Riga, and 70° at Kuopio. Lowest, 51° at Sumburgh Head, 50° at Wick, 52° at Malin Head and Parsonstown, and 53° at Nairn. Rising during day to 68° at Yarmouth, 67° at Spurn Head and 69° in London, but failing to reach 60° in Ireland, exceeding 80° over France, Italy and Germany, and reaching 97° at Madrid.

Wind cyclonic over our Islands and the North Sea, being Southerly in the east, South-Westerly to Westerly in the south. North-Westerly to Westerly in the west, and Easterly in the north. Fresh to strong in Ireland and England, but light in Scotland. Chiefly light from East to North-East at the Continental stations. Becoming Westerly to North-Westerly over our Islands later and still blowing strongly, no important change occurring elsewhere.

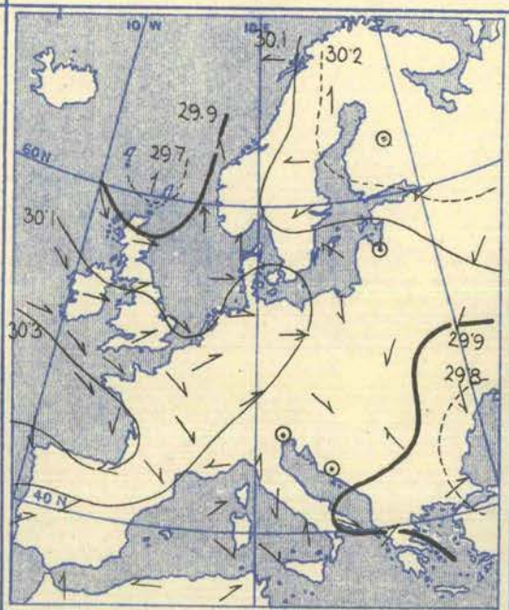
Barometer 30·2 ins. and more in two anticyclones lying respectively over the Gulf of Bothnia and the northern part of the Spanish Peninsula. Lowest, 29·5 ins. and less in a somewhat deep depression over our Islands, and 29·7 ins. and less in a shallow area lying over Asia Minor. Depression over our Islands moving northwards later, that over Asia Minor remaining almost stationary.

Monday, 24th June.

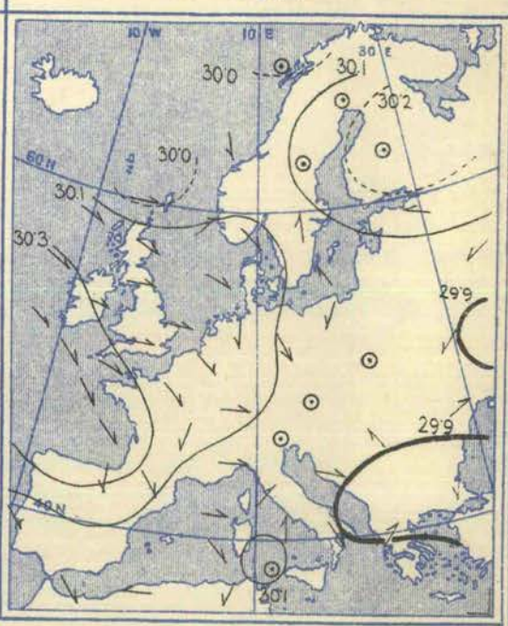
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning finer than of late but still far from being settled as far as our Islands are concerned; clear over northern Europe, and over the Mediterranean. Rain later, very generally, over Austria, Germany and the eastern parts of the British Islands, (0·6 ins. at Munich), local showers at some of the Irish stations; remaining fine over northern Europe.

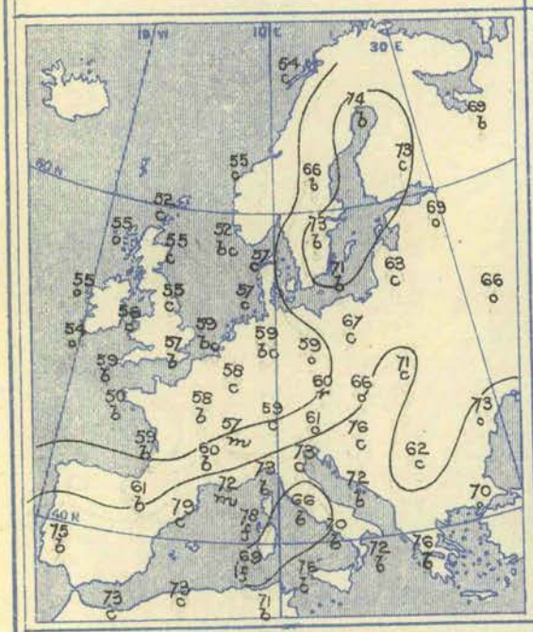
Temperature fallen over the British Islands and the Netherlands. Morning readings highest, 74° on the Algerian coast, 71° at Nice; 73° at Nicolaieff and Kief, 72° at Prague; 80° at Riga, 75° at Uleaborg. Lowest, 50° at Sumburgh Head, 52° at Stornoway, 53° at Blacksod Point; very irregularly distributed between these points. Rising later to between 65° and 68° in many parts of the British Islands, to 81° at Brussels, 82° at Wisby, 86° at Lisbon, 84° at Rome, 86° at Marseilles; not exceeding 52° at Sumburgh Head, and 56° at Malin Head.

Wind mainly North-Westerly in the west and north of our Islands (strong in the north of Scotland), Westerly over the south-east of England; very variable elsewhere—but Southerly to Easterly on the Norwegian coast, light, North-Easterly to Northerly in the south of Russia. Moderating later in the north of Scotland. Changing irregularly elsewhere. The South-Easterly breeze in the west of Norway dying down.

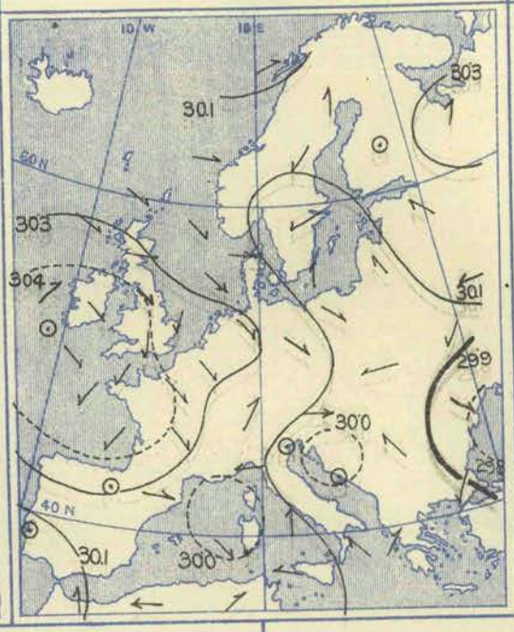
Barometer in morning highest, (1) 30·3 ins. to 30·2 ins. over the Bay of Biscay, the west of France, and our south-west districts; (2) 30·2 ins. and more over the north of Russia. Lowest, 29·63 ins. in the Shetlands, and below 29·3 ins. over the south of Russia and the Black Sea. The depression near the Shetlands passing away to the northward later, and barometer rising over Ireland and Scotland, that over the Black Sea breaking up. Anticyclone off our south-west coasts spreading north-eastward and eastwards.

Tuesday, 25th June.

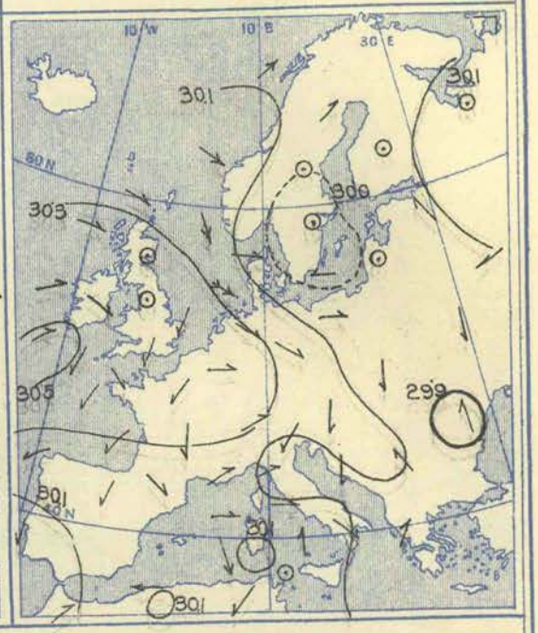
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in many parts of our Islands, but fine over England and on the Continent generally. Rain later in considerable quantities over some parts of Scandinavia and Germany, the greatest amount being 0·71 in. at Faerder, and 0·91 in. at Breslau.

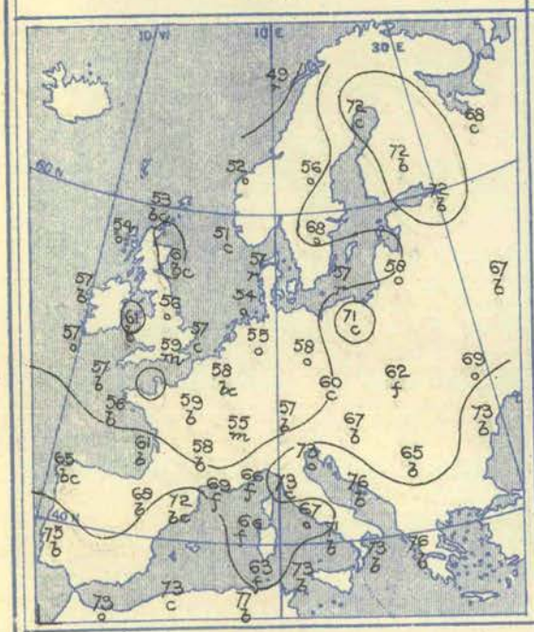
Temperature fallen in Norway, and also in France and central Europe, not changed much elsewhere. Morning readings highest, (1) 79° at Barcelona, 78° at Sanguinaires, 77° at Oporto, 76° at Palermo and Patras; (2) 76° at Memel, 73° at Stockholm and 71° at Wisby. Lowest, 52° at Sumburgh Head and Skudesnaes, 54° at Bodö and Malin Head, and 55° at Christiansund, Blacksod Point and at several of the Scotch stations. Rising during day to 68° at Shields and in London, and to 67° at Leith, exceeding 70° in many parts of France and Germany, and reaching 81° at Nice, 84° at Rochefort, 88° at Florence and Lisbon, and 90° at Perpignan and La Calle, but touching 97° at several of the Algerian stations.

Wind Westerly and light in Scotland, North-Westerly over the North Sea, Northerly and North-Easterly over England and France. Light and variable elsewhere. Westerly wind spreading later over Ireland and the west of England, but no material change elsewhere.

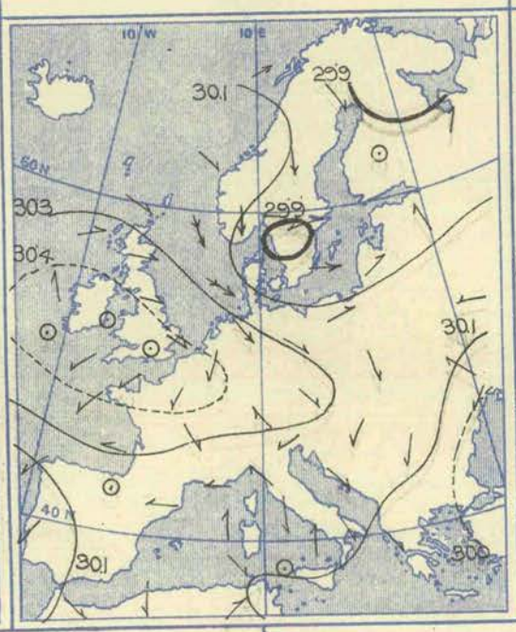
Barometer highest, 30·4 ins. and more over Ireland, England and the north-west of France, and 30·3 ins. and more over northern Russia. Lowest, 29·8 ins. and less over the Black Sea, 30·0 ins. and less over the Balkan Provinces, and 30·1 ins. and less over the Gulf of Genoa, Corsica and Sardinia. Depression forming later over the Baltic and the south of Scandinavia. No important change elsewhere.

Wednesday, 26th June.

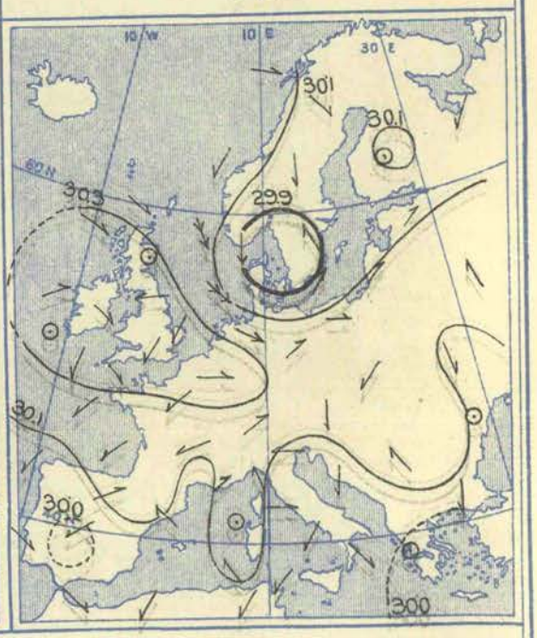
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in Scandinavia and Denmark, with rain in many places, fine over our Islands and on the Continent generally, with fog at several Mediterranean stations. Rain falling later over northern Europe, as well as in some parts of Austria, as much as 0·79 in. measured at Karlstad and 1·02 in. at Faerder.

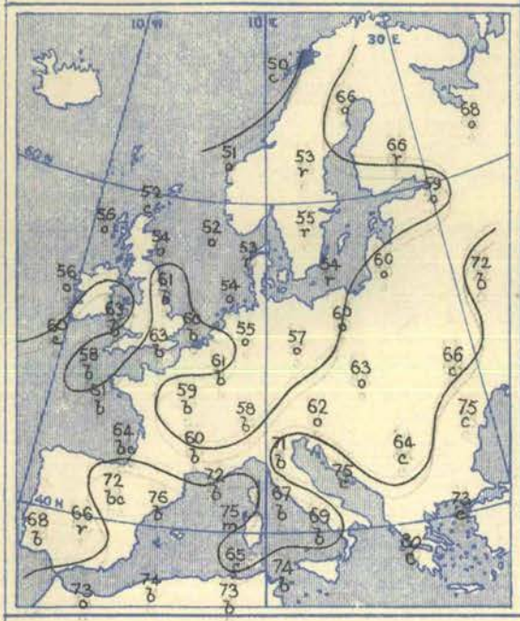
Temperature fallen decidedly over Sweden and central Europe, changed little and irregularly elsewhere. Morning readings highest, (1) 77° at La Calle, 76° at Lesina and Patras, 75° at Lisbon; (2) 71° at Uleaborg and 72° at Haparanda, St. Petersburg and Kuopio. Lowest, 49° at Bodö, 51° at Skudesnaes, 53° at Sumburgh Head and Copenhagen, and 54° at Stornoway and Faerder. Rising during day to between 70° and 74° over central England 81° at Nice and Perpignan, 88° at Cette, and reaching 90° at several of the Algerian and Italian stations and also at Madrid.

Wind light from the Westward in Scotland and the east of England, Northerly to North-Westerly, strong to a gale, over Scandinavia and Denmark, but Easterly and North-Easterly over all the southern parts of our Islands and on the Continent generally. No change of importance later.

Barometer highest, 30·4 ins. and more over Ireland, England and the north of France, and 30·2 ins. and more in a small anticyclone over central Russia. Lowest, 29·9 ins. and less in a well-marked depression over the south of Sweden and also in a shallow depression lying over the Black Sea. Barometer falling a little over France and our Islands later; depressions remaining almost stationary over south of Sweden.

Thursday, 27th June.

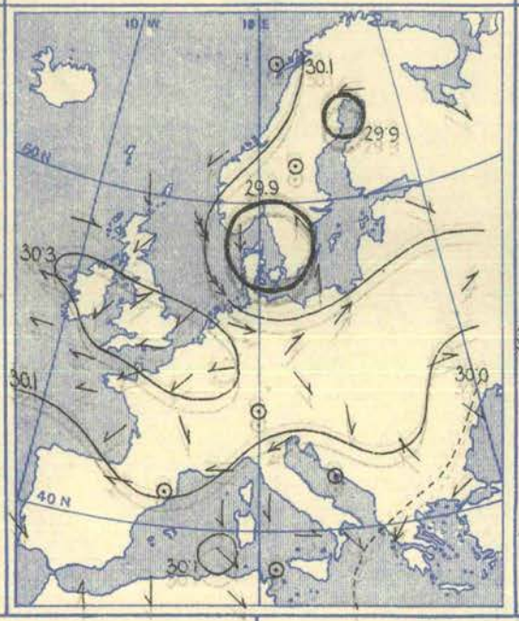
Temperature and Weather. 8 a.m.



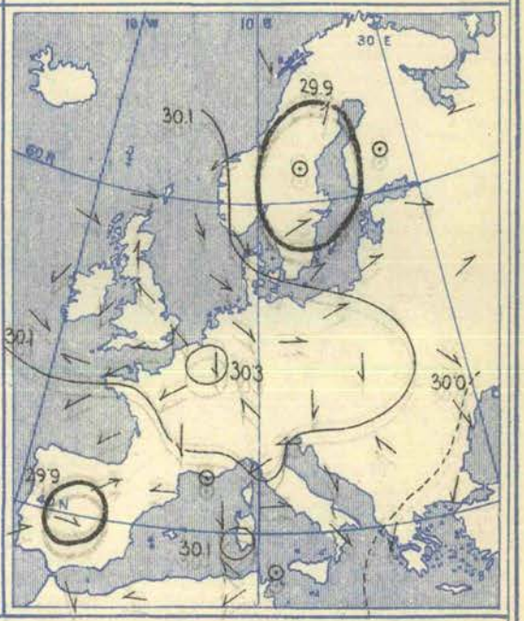
Weather in morning fine over the Mediterranean, France, Ireland and England, dull in Scotland and over Germany, rainy over the southern parts of Scandinavia, and also at Madrid. Rain later in all the last named regions, a small quantity in the north of Scotland, and 0·39 in. accompanied by a thunderstorm at Biarritz and Marseilles.

Temperature increasing over our Islands, decreasing over Sweden and the Baltic. Morning readings highest, 80° at Athens, and 75° to 70° at several of the Mediterranean stations; above 60° in many parts of Spain and France, and also over Finland and the north of Russia. Lowest, 50° to 52° in the west of Norway and the Shetlands, 54° at Færder, Aberdeen and Malin Head. Rising later to between 70° and 76° in several parts of Great Britain and Germany, to 77° at Paris, 84° at Nice, 95° at Rochefort and Bilbao.

Barometer and Wind. 8 a.m.



6 p.m.

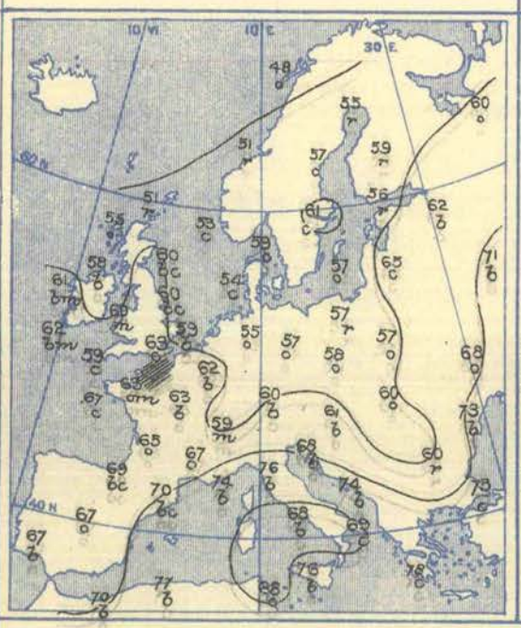


Wind (1) blowing a gale from Northward in the south of Norway, and North-West at Fanö, a strong breeze from South-Westward in north Germany, and moderate breeze from South and South-East in the south-east of Sweden; (2) very light and variable in our Islands—mainly Westerly in the north, and Easterly in the south; North-Easterly over France, Westerly over Spain. Not much change later except dying down of gale in Scandinavia.

Barometer highest, 30·3 ins. and more over England and Belgium, and exceeding 30·2 ins. over the British Isles generally, the north-east of France and central Germany. Lowest, 29·9 ins. and less in a depression over the south of Scandinavia; below 30·0 ins. over Asia Minor, and below 30·1 ins. all over the Mediterranean and Spanish Peninsula. Decreasing a little later over western Europe, and a shallow depression appearing over Spain.

Friday, 28th June.

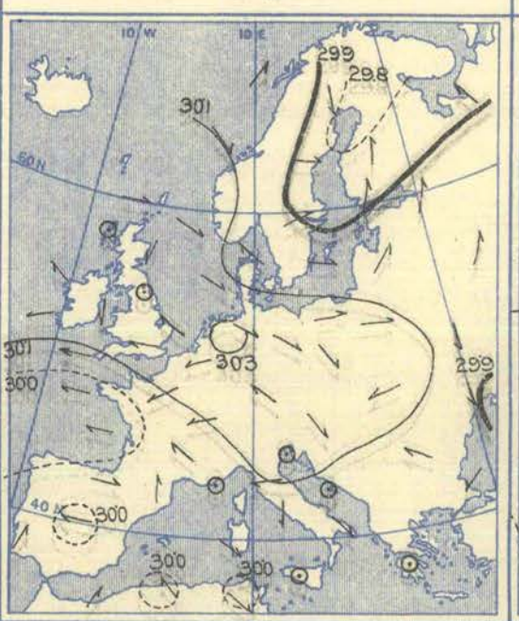
Temperature and Weather. 8 a.m.



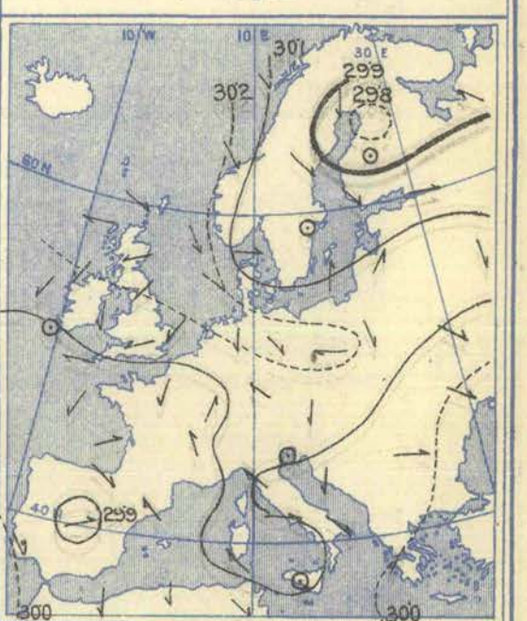
Weather in morning fine over central Europe and the British Islands, still dull over Scandinavia and the north of Russia, with rain in some localities; dull over central Spain also, variable in northern Africa. A little rain later in Sweden, and some very sporadic showers in other localities, but appearance of sky becoming less settled generally.

Temperature in morning, risen a little over the Baltic, Germany, and the south of France. Morning readings highest, 78° at Athens and Florence, and above 70° at many Mediterranean stations, and over Russia; above 60° over France, central Europe, and the south of England. Lowest, 55° at Stornoway, 51° at Sumburgh Head and Christiansund, 48° at Bodö. Rising later to between 70° and 80° over many parts of our Islands, 81° at Frankfurt, 83° at Paris, and 86° or more over many parts of southern Europe.

Barometer and Wind. 8 a.m.



6 p.m.

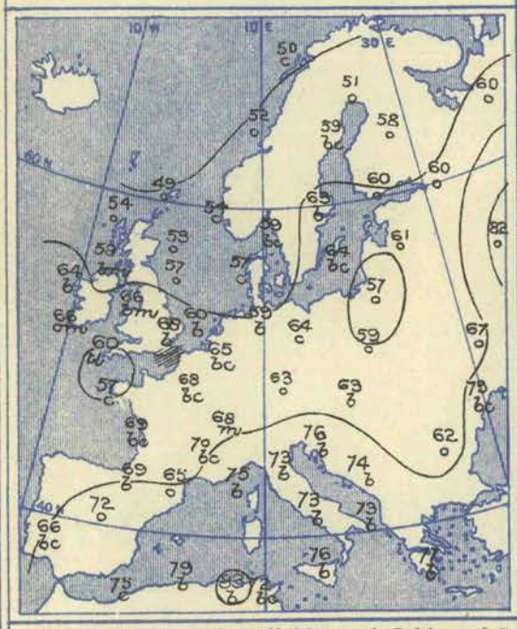


Wind varying greatly. (1) Light and anticyclonic over Scotland, the eastern parts of the North Sea and Germany; (2) South-Easterly to Easterly over France and the south of our Islands; (3) North-Westerly over the North Sea, Westerly over Denmark and the south of Scandinavia, South-Westerly to Southerly over the more eastern countries. A very light Westerly and South-Westerly wind creeping in over south-western and southern Europe later, and Easterly wind blowing strongly on our extreme south-east coasts.

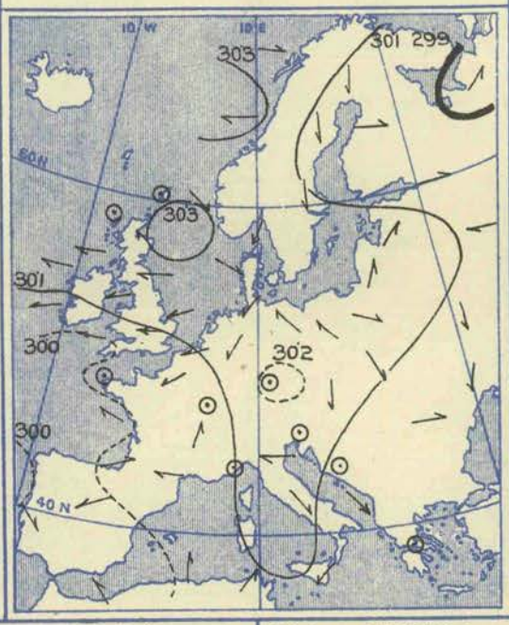
Barometer highest, 30·32 ins. at Münster, and exceeding 30·2 ins. all over Scotland, the north-east and east of England, the Netherlands, and central Germany. Lowest, (1) 29·8 ins. and less over the northern part of the Gulf of Bothnia, and 30·0 ins. and less over the Bay of Biscay, western France, and in a depression over central Spain. Barometer rising later over northern Europe; the depression over the Bay of Biscay becoming less well defined, but spreading eastwards over France

Saturday, 29th June.

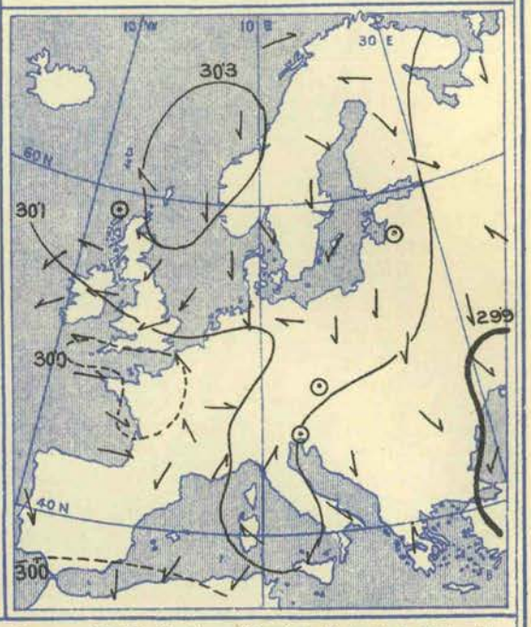
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine and bright over the Baltic, south Germany, and the Mediterranean, as well as over the British Islands as a whole, but becoming much less settled over the Bay of Biscay and at the mouth of the English Channel; thunder and lightning reported at Scilly, and a thundery appearance at Tavistock. Thunderstorms and rain reported later over many parts of France, the south and east of England, the amounts of rain being considerable in places (0·8 in. at Carlsruhe).

Temperature risen over France, central Europe, and many parts of England, changed irregularly elsewhere. Morning readings highest, (1) 83° at La Calle, much above 70° at many of the Mediterranean stations, 82° at Moscow, 70° to 60° over France and south of England, 65° to 60° over Germany; humidity increasing over England. Lowest, 49° at Sumburgh Head, 50° at Bodo, 51° at Haparanda. Rising later to between 78° and 70° in many parts of our Islands, to 82° at Brussels, 91° at Paris and Limoges and Lyons, 86° at Nice, 59° at Rome.

Wind as a whole light in force and very variable in direction; (1) mainly Westerly in Portugal, Easterly over Ireland and England, and blowing strongly on our south-east coasts; (2) Northerly over Sweden and the south of Norway, North-Westerly and Westerly over north Germany, South-Westerly over the Baltic Provinces. A Westerly breeze setting in later over the Bay of Biscay, and wind backing Northwards over the east of England.

Barometer highest, 30·3 ins. or more at Christiansund and Aberdeen, and exceeding 30·2 ins. all over the north and north-east of our Islands, Norway, the North Sea and central Germany, as well as at Prague. Lowest, 29·84 ins. at Archangel; below 30·0 ins. over the Black Sea, and also over the Bay of Biscay. The latter depression moving north-eastwards later, that over the Black Sea increasing in intensity, that over the White Sea passing off.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week pressure was highest—(1) 30·3 ins. and more to 30·2 ins. over the Bay of Biscay, the west of France, and the south-west of our Islands; (2) 30·2 ins. and more to 30·1 ins. over the north of Russia and Sweden. Lowest, 29·7 ins. and less over the Shetland Islands, and below 29·8 ins. over the Black Sea. Temperature was rather low over western Europe generally, and in that region North-Westerly winds were prevalent. The high pressure in the west now moved north-eastwards, bringing fine, bright weather to all of western and north-western Europe, and a great increase of temperature, while the system in the north of Russia also increased in intensity and moved south-eastwards. By Wednesday the western anticyclone had covered the whole of our Islands, Belgium and the north-east of France, while a depression had formed over the south of Sweden, causing Northerly and North-Westerly gales on the eastern shores of the North Sea. This depression subsequently moved northwards and filled up, but in the south-west of our Islands and the extreme west of Europe disturbances appeared, which brought about rain and thunder not only over France, but over the southern parts of the United Kingdom also.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	16·3	-17·7	13	-14	BRIGHTON	77·1	+19·9	68	+22
STRATHPEFFER SPA	26·7	- 8·3	21	- 8	WORTHING	77·5	?	68	?
EDINBURGH	52·8	+19·0	44	+16	BOGNOR	78·1*	?	69*	?
MORPETH	49·4	?	42	?	WATERGATE (Emsworth)	67·0	?	59	?
NEWCASTLE-ON-TYNE	45·8	?	38	?	WESTBOURNE (Emsworth	76·7*	+26·7	67*	+23
OSWALDKIRK (Yorkshire)	47·2	+ 9·7	40	+ 8	VENTNOR HOSPITAL	68·0	+21·5	60	+19
YORK					BOURNEMOUTH	73·9	?	65	?
LOWESTOFT	74·7	?	65	?	SOUTHPORT	58·6	?	50	?
HOLLESLEY BAY	74·5	?	65	?	RHYL	*	?	*	?
SHEFFIELD	45·1	?	39	?	COLWYN BAY		?		?
WORKSOP	47·5	+10·1	41	+ 9	ABERDOVEY	74.0*	?	64*	?
THURCASTON (Leicestershire)	65·4	+25·1	56	+21	TENBY	58·2	+ 6·2	51	+ 5
MARGATE					NEWQUAY	65·6	+14·4	58	+12
BROADSTAIRS	63·6	?	56	?	TORQUAY	64·8	+11·3	57	+ 9
EASTBOURNE					GUERNSEY	77·8*	+19·3	69*	+16

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 27.] *Third Series.* WEEK ENDING SATURDAY, JULY 6TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	84	43	65·8	48·3	56·4	3 above	101	+21	0	0	883	+ 90	561	- 1
	1. SCOTLAND, EAST	84	41	65·3	49·0	56·5	1 „	102	+ 7	0	0	930	- 45	657	+45
	2. ENGLAND, N.E.	80	41	66·5	52·8	59·3	2 „	121	+15	0	0	1022	- 1	516	+ 9
	3. ENGLAND, EAST	83	47	69·3	54·9	61·6	2 „	137	+17	0	0	1146	- 88	560	+ 8
	4. MIDLAND COUNTIES	83	48	70·4	54·7	62·0	3 „	140	+23	0	0	1202	- 61	591	+32
	5. ENGLAND, SOUTH	83	52	69·7	55·7	62·2	3 „	141	+15	0	0	1230	-131	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	80	45	68·4	50·9	59·0	3 „	119	+19	0	0	1049	- 15	470	+36
	7. ENGLAND, N.W.	80	43	68·4	53·8	60·6	3 „	130	+20	0	0	1113	- 27	453	+44
	8. ENGLAND, S.W.	83	51	69·5	55·8	62·2	3 „	141	+26	0	0	1278	- 9	369	+51
	9. IRELAND, NORTH	77	48	66·0	53·3	59·2	3 „	120	+18	0	0	1063	- 90	374	+11
	10. IRELAND, SOUTH	78	46	68·1	55·1	61·2	3 „	134	+21	0	0	1254	-100	325	+63
	—CHANNEL ISLANDS	74	55	65·3	57·0	60·9	1 „	132	+ 7	0	0	1467	- 22	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 158.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	7 less	115	+ 1	18·9	- 4·1	55	+23	44	+17	770	+ 97	32	+ 4
	1. SCOTLAND, EAST	2	1	5 less	99	+ 3	13·0	- 1·2	27	-11	23	- 9	821	+ 82	34	+ 3
	2. ENGLAND, N.E.	3	5	0 (average)	92	+ 1	10·3	- 1·1	44	+ 7	37	+ 5	862	+132	36	+ 6
	3. ENGLAND, EAST	4	9	4 more	92	0	10·1	- 1·2	39	-10	34	- 9	972	+ 78	39	+ 4
	4. MIDLAND COUNTIES	3	13	7 more	87	0	12·3	- 0·6	34	- 5	30	- 5	841	+ 97	37	+ 4
	5. ENGLAND, SOUTH	3	8	3 more	79	- 7	11·2	- 1·5	48	- 2	42	- 2	992	+ 92	41	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	7 less	97	- 8	20·6	- 3·4	44	+ 3	38	+ 3	906	+127	38	+ 6
	7. ENGLAND, N.W.	2	2	5 less	93	- 1	12·0	- 3·0	49	+ 4	42	+	961	+160	40	+ 7
	8. ENGLAND, S.W.	3	6	1 less	85	-13	17·0	- 1·4	35	-14	31	-13	1000	+ 76	42	+ 3
	9. IRELAND, NORTH	2	2	5 less	110	- 2	16·5	+ 0·1	45	+11	38	+ 8	839	+101	35	+ 4
	10. IRELAND, SOUTH	2	5	2 less	93	-11	16·9	- 2·3	37	0	32	0	895	+ 69	37	+ 2
	— CHANNEL ISLANDS	3	4	1 less	104	+ 4	15·2	+ 0·6	40	-13	36	-13	1036	- 33	43	- 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was mostly fine, but very heavy rain was experienced at the commencement of the week, accompanied in places by thunder and lightning, and slight falls at many northern and eastern stations towards the end of the week. Slight thunderstorms occurred over the east of England on Friday evening. Fog prevailed occasionally on our south-western and western coasts.

Temperature was above the mean, the excess being 3° in most districts, but only 1° in the Channel Islands and Scotland E., and 2° in England N.E. and E. The highest of the maxima were registered, as a rule, either on the 4th or 5th, and ranged from 84° in Scotland N. and E., and 83° in most of the English districts to 78° or 77° in Ireland, and to 74° in the Channel Islands. The daily maxima during the earlier half of the week were low on most of our northern and western coasts. The lowest of the minima were recorded on rather irregular dates; they varied from 41° in Scotland E. and England N.E., and 43° in Scotland N. and England N.W., to 51° in England S.W., 52° in England S. and 55° in the Channel Islands.

Rainfall exceeded the mean in England E. and S. and the Midland Counties, owing mainly to the heavy falls on Sunday, and just equalled the mean in England N.E.; elsewhere it was less than the normal. The largest amounts at individual stations during Sunday's fall were 1·87 ins. at Emsworth (making a total of 2·94 ins. at this station since 10 p.m. on Saturday), 1·49 ins. at Colly Weston, 1·41 ins. at Birmingham, 1·18 ins. at Cambridge, and 1·15 ins. at Hereford.

Bright Sunshine varied greatly in different parts of the Kingdom, but was less than the normal in most districts. The percentage of the possible duration ranged from 44 in Scotland N. and 42 in England S. and N.W. to 31 in England S.W., 30 in the Midland Counties and 23 in Scotland E.

Barometer and Wind.—During the earlier part of the week pressure was highest over Scandinavia, while shallow depressions existed over the southern parts of England and the Channel, the resulting winds over our Islands being moderate from East and North-East. Later in the period the northern anticyclone dispersed, the depressions moved slowly away over France, and another anticyclone spread over the United Kingdom from the South-Westward. Light winds from between North and North-West or West accompanied the change. Towards the end of the week shallow depressions were observed in the north and also over the south-eastern counties, and caused some modification in the direction of the wind in those regions.

207 | 90 Wy. & S., L.
319 | 70 7 | 01.

II.—DATA from which the SUMMARY on page 157 has been calculated.

Districts	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days. *	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	46	54·7	47·6	50·9	− 0·5	62	0	0	—	− 0·50	*	*	*	*
	Stornoway	72	47	67·1	48·3	57·1	+ 3·6	106	0	1	0·08	− 0·56	72·5	+36·7	58	+28
	Wick	64	46	59·0	48·4	53·3	− 0·5	79	0	0	—	− 0·50	*	*	*	*
	Lairg Ⓢ	84	43	70·9	46·2	57·7	+ 4·2	110	0	1	0·05	− 0·57	*	*	*	*
	Glencarron Ⓢ	79	43	70·4	47·4	58·1	+ 3·8	113	0	1	0·02	− 1·26	*	*	*	*
	Fort Augustus Ⓢ	80	44	68·2	48·8	57·8	+ 2·1	111	0	2	0·07	− 0·55	48·2	+23·7	40	+19
	Fort William Ⓢ	76	49	70·6	51·2	60·2	+ 4·5	127	0	1	0·07	− 1·01	65·0	+32·0	53	+24
1. SCOTLAND, E.	Nairn	73	45	64·4	48·4	55·8	− 0·1	97	0	3	0·16	− 0·38	*	*	*	*
	Aberdeen	65	47	59·6	49·3	54·1	− 1·5	85	0	2	0·09	− 0·47	23·7	−15·8	21	−12
	Braemar Ⓢ	78	41	68·8	46·8	56·8	+ 3·3	104	0	1	0·24	− 0·36	*	*	*	*
	Ochtertyre Ⓢ	84	45	72·3	49·4	60·1	+ 2·8	127	0	1	0·13	− 0·55	*	*	*	*
	Leith	71	47	61·9	51·1	56·1	− 1·2	99	0	3	0·07	− 0·47	*	*	*	*
	Marchmont Ⓢ	79	45	64·7	48·7	56·1	+ 0·7	99	0	1	0·06	− 0·64	38·5	− 1·3	32	− 2
2. ENGLAND, N.E.	Alnwick Castle	77	41	67·4	50·6	59·4	+ 3·5	122	0	2	0·67	+ 0·09	*	*	*	*
	Durham	80	44	67·4	52·1	59·2	+ 1·7	120	0	3	0·21	− 0·37	43·9	+ 5·9	37	+ 4
	Shields	77	48	64·4	53·4	58·5	+ 2·1	116	0	3	0·18	− 0·33	*	*	*	*
	Scarborough Ⓜ	75	48	66·1	51·5	58·3	+ 0·9	114	0	3	0·11	− 0·44	38·8	?	33	?
	Spurn Head	73	52	63·7	54·7	58·9	+ 0·7	118	0	3	0·87	+ 0·50	*	*	*	*
	Fulbeck (Lincolnshire)	80	52	69·8	54·5	61·6	+ 2·5	137	0	4	1·00	+ 0·50	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	83	49	70·5	54·1	61·7	+ 2·4	138	0	2	0·69	+ 0·11	28·7	−16·3	25	−14
	Yarmouth	67	53	63·4	54·9	58·9	+ 0·2	118	0	4	1·03	+ 0·49	*	*	*	*
	Geldeston	79	47	68·4	54·2	60·8	+ 1·9	132	0	4	1·05	+ 0·54	33·7	−14·5	30	−13
	Cambridge	83	50	74·0	54·6	63·6	+ 3·4	151	0	5	1·45	+ 0·93	41·0	− 4·8	36	− 5
	Felixstowe	72	55	67·4	56·9	61·8	+ 3·1	139	0	4	0·96	?	40·8†	?†	36†	?†
	Rothamsted	80	52	71·8	54·6	62·6	+ 3·5	144	0	2	0·44	− 0·10	39·7	− 7·0	35	− 6
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	49	69·0	55·7	61·9	+ 3·0	139	0	4	0·97	+ 0·40	*	*	*	*
	Loughborough	82	52	70·7	55·3	62·5	+ 2·3	144	0	4	1·09	+ 0·58	*	*	*	*
	Colly Weston (Stamford)	83	50	73·3	54·9	63·5	+ 4·1	151	0	3	1·76	?	*	*	*	*
	Cheadle Ⓜ	78	50	67·6	53·3	60·0	+ 3·2	126	0	2	0·95	+ 0·28	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	78	52	69·3	55·1	61·7	+ 3·1	138	0	4	1·68	+ 1·08	26·2	?	23	?
	Churchstoke Ⓜ	81	48	70·1	51·6	60·2	+ 3·3	127	0	3	0·97	+ 0·45	46·0	+ 2·8	40	+ 2
	Hereford (Belmont) Ⓜ	80	51	71·2	54·7	62·4	+ 3·0	143	0	3	1·86	+ 1·36	*	*	*	*
	Cirencester	77	52	70·4	55·1	62·2	+ 3·8	141	0	3	1·12	+ 0·53	40·8	− 4·2	36	− 4
	Oxford	79	53	72·3	56·3	63·7	+ 3·8	152	0	2	0·87	+ 0·34	38·2	− 7·2	34	− 6
5. ENGLAND, S.	London	83	54	74·6	56·4	64·9	+ 3·6	160	0	2	1·06	+ 0·57	45·5†	+ 3·5†	40†	+ 3†
	Swarraton (Alresford) Ⓜ	77	52	70·1	54·4	61·7	+ 3·8	138	0	3	1·37	+ 0·84	*	*	*	*
	Dungeness	73	54	66·1	55·7	60·5	+ 0·9	130	0	2	0·67	+ 0·32	*	*	*	*
	Hastings (St. Leonards)	78	54	69·7	55·5	62·1	+ 2·5	141	0	2	0·29	− 0·16	53·1	+ 1·1	47	0
	Southampton	83	54	73·5	56·9	64·6	+ 3·6	158	0	3	0·74	+ 0·22	41·3	− 8·5	37	− 8
	Portland Bill	76	54	65·0	56·1	60·2	+ 1·5	127	0	5	0·80	?	*	*	*	*
	Shaftesbury Ⓜ	76	53	68·6	54·8	61·2	+ 3·3	134	0	3	0·55	− 0·05	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	80	48	70·4	51·5	60·3	+ 3·8	128	0	2	0·13	− 0·95	*	*	*	*
	Glasgow	77	49	66·4	52·0	58·7	+ 2·1	117	0	2	0·06	− 0·64	36·6	+ 2·6	31	+ 2
	Glenlee Ⓢ	78	45	69·7	47·4	57·8	+ 1·3	111	0	0	—	− 0·85	*	*	*	*
	Douglas (Isle of Man)	73	47	66·9	52·7	59·3	+ 2·8	121	0	2	0·10	− 0·52	51·1	+ 4·1	44	+ 3
7. ENGLAND, N.W.	Newton Reigny	80	43	72·3	49·6	60·2	+ 4·0	127	0	0	—	?	52·7	?	44	?
	Stonyhurst	76	52	67·5	54·8	60·7	+ 3·1	131	0	3	0·08	− 0·78	41·0	− 0·8	35	− 1
	Blackpool Ⓜ	76	50	69·2	53·2	60·6	+ 2·3	130	0	3	0·13	− 0·47	53·5	+11·0	46	+ 9
	Manchester (Prestwich)	79	50	69·3	53·3	60·7	+ 3·1	131	0	3	0·37	− 0·38	39·5	?	34	?
	Liverpool Obsy. (Bidston)	74	53	67·7	55·6	61·2	+ 2·5	134	0	3	0·20	− 0·37	49·4	?	43	?
	Chester (Hawarden Bridge)	75	51	68·9	54·1	61·0	+ 2·0	133	0	2	0·34	?	*	*	*	*
	Llandudno Ⓜ	76	54	66·8	55·8	60·9	+ 2·0	132	0	3	0·17	− 0·35	44·0	+ 1·3	38	0
	Holyhead	74	52	65·1	54·0	59·2	+ 1·5	120	0	2	0·10	− 0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	83	51	72·9	54·6	63·1	+ 4·9	148	0	3	0·29	− 0·49	*	*	*	*
	Pembroke	?	54	?	54·7	?	?	?	0	3	0·18	− 0·32	34·8	−14·2	31	−13
	Clifton	80	55	70·8	56·8	63·3	+ 3·7	149	0	2	0·69	+ 0·09	*	*	*	*
	Bath	78	52	71·0	56·4	63·2	+ 3·0	148	0	2	0·92	?	35·7	?	32	?
	Arlington (N. Devon)	74	51	66·3	53·6	59·5	+ 2·1	123	0	3	1·08	+ 0·21	*	*	*	*
	Cullompton Ⓜ	78	52	69·8	56·2	62·5	+ 3·0	144	0	3	0·83	+ 0·24	31·0	−12·8	27	−12
	Falmouth	72	55	66·7	56·3	61·1	+ 2·1	134	0	3	0·20	− 0·43	37·5	−14·7	33	−14
	Plymouth	74	56	69·2	57·0	62·7	+ 2·8	145	0	3	0·33	− 0·22	30·3	−17·9	27	−17
9. IRELAND, N.	Malin Head	70	51	62·9	53·4	57·8	+ 1·9	111	0	1	0·01	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	76	48	70·0	52·3	60·5	+ 4·5	130	0	2	0·16	− 0·55	*	*	*	*
	Blacksod Point	70	55	66·3	56·6	60·7	+ 3·8	131	0	3	0·26	?	*	*	*	*
	Markree Castle	74	50	67·5	53·2	59·9	+ 3·9	125	0	2	0·21	− 0·57	44·4	+11·9	38	+ 9
	Armagh	77	48	68·4	51·7	59·6	+ 2·9	123	0	3	0·12	− 0·53	44·8	+ 9·9	38	+ 7
	Donaghadee	72	50	62·1	52·3	56·7	0·0	103	0	3	0·18	− 0·42	*	*	*	*
10. IRELAND, S.	Dublin	76	55	67·1	55·3	61·1	+ 1·9	134	0	3	0·77	+ 0·25	43·7	+ 3·2	38	+ 2
	Parsonstown	74	46	69·6	53·1	60·8	+ 3·2	132	0	1	0·51	− 0·12	41·6	+ 7·4	36	+ 5
	Kilkenny	74	47	69·7	54·3	61·5	+ 3·4	137	0	1	0·32	− 0·25	*	*	*	*
	Roche's Point	70	53	67·1	55·9	61·2	+ 2·5	134	0	2	0·25	− 0·43	*	*	*	*
	Valencia	70	51	62·9	55·6	59·0	+ 1·3	119	0	4	0·76	− 0·08	25·8	−12·7	23	−12
	Killarney	78	49	71·1	55·9	63·0	+ 5·5	147	0	2	0·31	− 0·43	*	*	*	*
	Foynes	74	50	68·9	55·0	61·5	+ 4·3	137	0	2	0·38	− 0·27	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	56	63·7	57·0	60·1	+ 0·9	127	0	2	0·42	− 0·06	32·9	?	29	?
	Jersey	74	55	66·9	56·9	61·6	+ 0·9	137	0	3	0·31	− 0·15	40·2	−15·6	36	−15

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

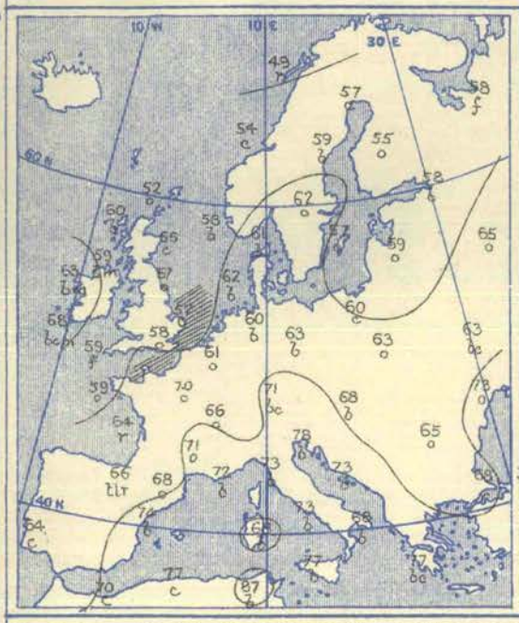
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 30th June.

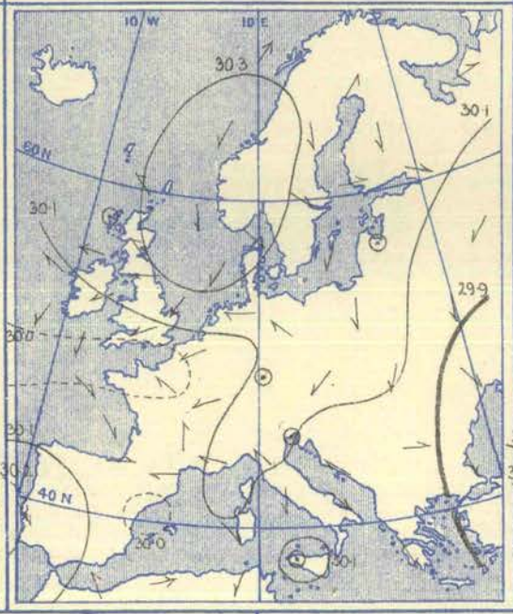
Temperature and Weather.

8 a.m.

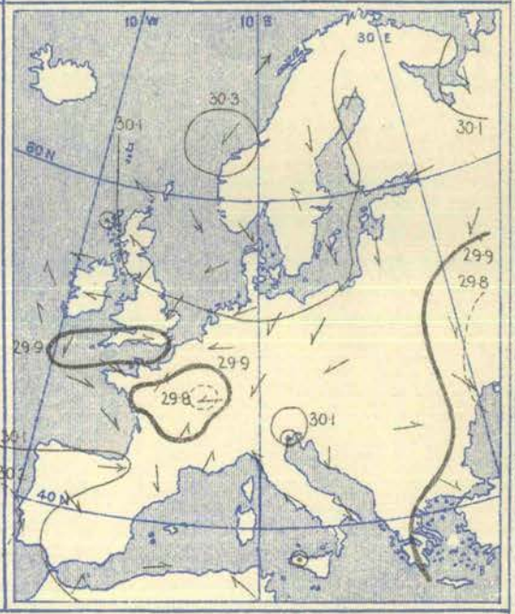


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy in several parts of France and overcast over the south-west and south of England, with thunder showers at Pembroke and Portland. Fine and bright in nearly all other parts of Europe, but rainy at Constantinople. Rain falling during day over the southern half of the United Kingdom (heavy in south-eastern England), many parts of France, the Netherlands and Germany, as well as in the south of Russia. Thunder experienced at the Helder.

Temperature at 8 a.m. highest, 87° at La Calle, and above 70° at the Mediterranean stations generally and in southern Russia. Lowest, 49° at Bodo, 52° at Sumburgh Head, and below 58° over the major part of Great Britain. Rising later to 70° in the Hebrides, 71° at Valencia (Ireland) and in London, and to 73° at Nairn. Over France, Algeria and Italy maxima of about 90° not uncommon, and thermometer at Aumale rising to 106°. Succeeding night rather warm.

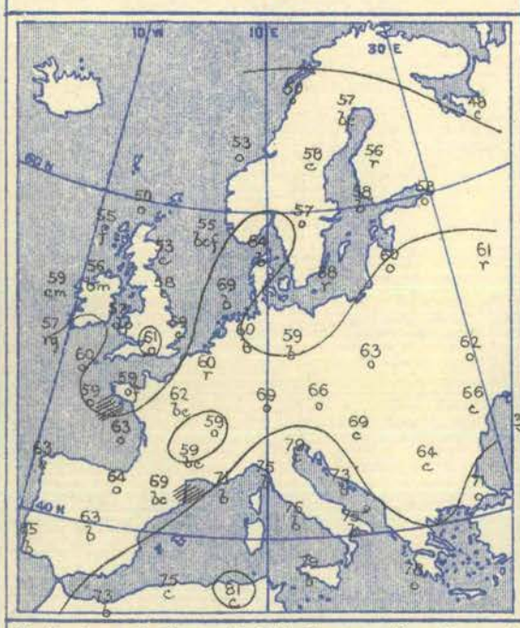
Wind North-Easterly to Easterly or South-Easterly over our Islands and fresh or strong in the Straits of Dover. Light or moderate from the North-Westward over the Bay of Biscay and the west of Spain and Portugal. Light and variable at the Mediterranean stations; light and mainly from the Northward over northern and eastern Europe. Not much change of importance later, but force of wind decreasing in Straits of Dover, and a complete circulation of light cyclonic airs setting in over the east of France.

Barometer highest, (1) 30·3 ins. and upwards over Norway, Denmark and the greater part of the North Sea, and (2) 30·21 ins. in the neighbourhood of Lisbon. Lowest, (1) 29·9 ins. and less over the Black Sea and its immediate neighbourhood, and (2) 30·0 ins. and less in an elongated depression lying over the south and south-west of England, the Channel and north of France. Both depressions increasing in depth during the day and the former system moving northwards. Another disturbance appearing suddenly near Dijon. Pressure within the northern anticyclone decreasing slowly, but the general contour of the system remaining unchanged.

Monday, 1st July.

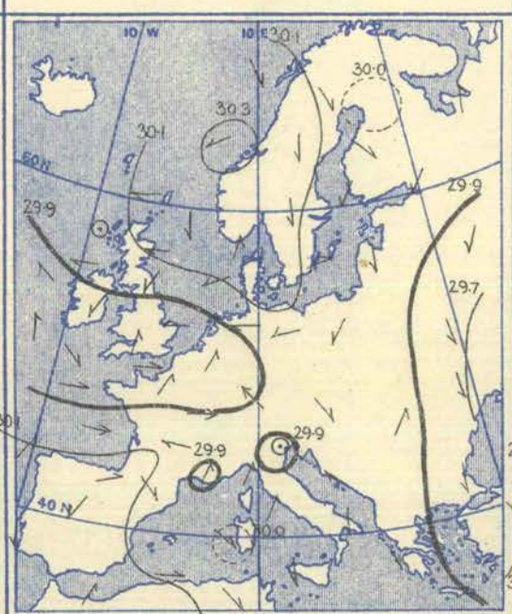
Temperature and Weather.

8 a.m.

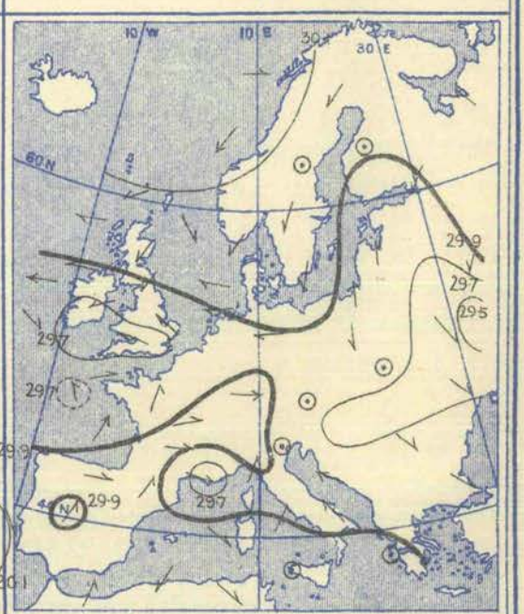


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright all over southern Europe, but much cloud prevailing in most other regions, with rain over western Germany, at several of the English and Irish stations, at Limoges, and also at Moscow and Kuopio. Rain falling later in many parts of central Europe, the amounts being large at Münster, Munich, Biarritz and Kharkov. Weather remaining fine over southern Europe, and dry over Scandinavia.

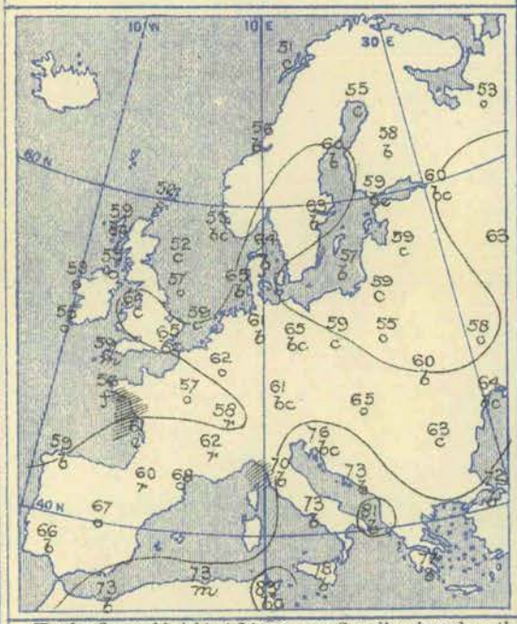
Temperature in morning highest, 81° at La Calle, 79° at Palermo, 78° in Greece and at Leghorn, and considerably above 70° at the Mediterranean and Adriatic stations generally. Highest in our Islands, 62° at Roches Point and 61° in London. Lowest, 48° at Archangel, 50° at Bodö and Sumburgh Head, and below 59° in nearly all parts of the United Kingdom, Scandinavia and north Germany. Rising during day to 71° in London, 72° at Paris, between 77° and 93° at the Italian stations, 90° at Nice, and to 100° at Tunis. Maximum at Leith only 57° and that at Aberdeen no higher than 55°.

Wind Northerly or North-Easterly over the greater part of Europe including the British Islands, but Westerly at the English Channel stations and between West and South-West over France. Light and variable over the Mediterranean, and South-Westerly over the greater part of Italy. Very little change later, but wind increasing in strength over the Gulfs of Lions and Genoa and a cyclonic circulation springing up over Spain.

Barometer highest, 30·2 ins. to 30·3 ins. and upwards in an anticyclone over Norway and the adjacent parts of the Atlantic, and 30·1 ins. and upwards over the Iberian Peninsula and Algeria. Lowest, 29·6 ins. and less over the extreme south-east of Russia, 29·8 ins. and less in a depression covering the southern half of England, the north-east of France, and the Netherlands, 29·9 ins. and less in a complex system lying over northern Italy and the Riviera. Barometer falling generally during day and the depressions over the Riviera and south-eastern Russia becoming much deeper. The system over England changing very little, but a small depression appearing near Brest and another disturbance forming over central Spain.

Tuesday, 2nd July.

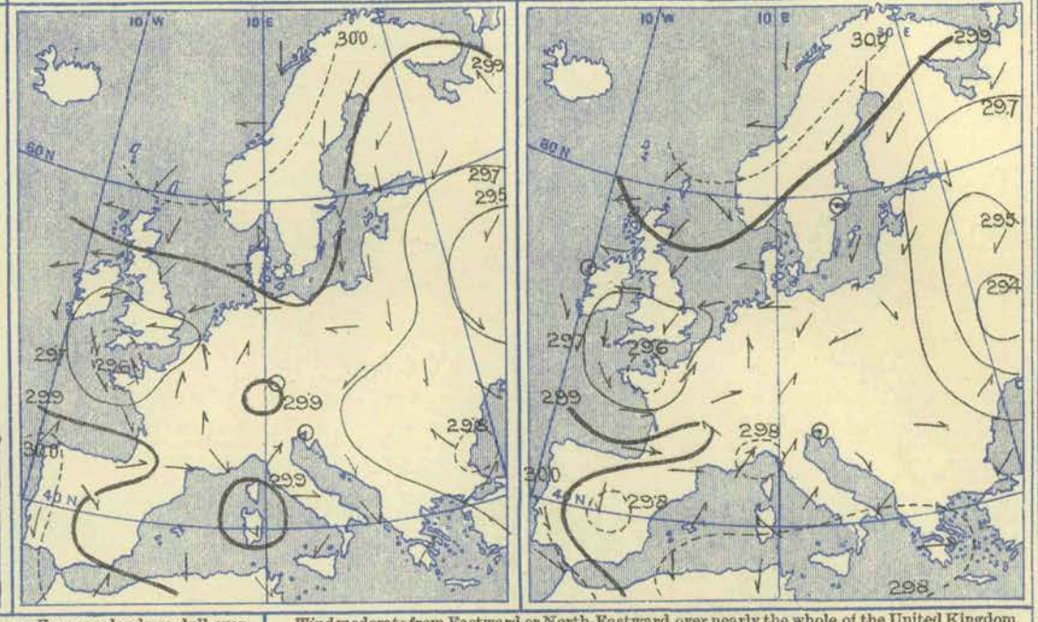
Temperature and Weather. 8 a.m.



Weather fine and bright at 8.0 a.m. over Scandinavia and southern Europe, cloudy or dull over the United Kingdom, Russia, central Europe and France. Rain falling in some parts of England and Ireland, at several French stations, at Münster and Kharkov. Rain later in most of our southern districts, considerable amounts over France, some parts of the Netherlands and Germany, and at Moscow. At Munich the fall amounted to 1·70 ins.

Temperature in morning highest, 83° at Tunis, 81° at Brindisi, 78° at Palermo, 77° in Greece and at Barcelona, and 76° at Trieste. Highest in our Islands 65° in London. Lowest, (1) 50° at Sumburgh Head and Wick, 52° at Aberdeen and Leith, and 55° at Portland Bill; (2) 51° at Bodö and 53° at Archangel; (3) 54° at Limoges. Rising during day to 70° or 71° over central England to 77° at Berlin, 81° on the shores of the Adriatic, 86° at Rome and Cagliari, 90° at Brindisi and Algiers and to 102° at Aumale. Not exceeding 55° at some of the Scotch stations, nor 61° at Portland Bill and Yarmouth.

Barometer and Wind. 8 a.m. and 6 p.m.

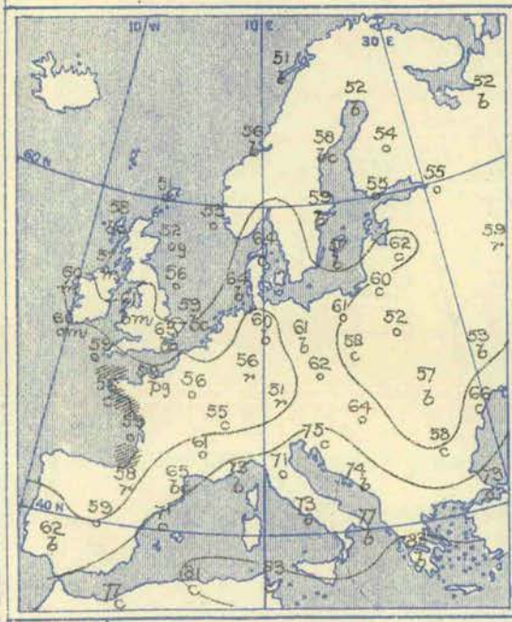


Wind moderate from Eastward or North-Eastward over nearly the whole of the United Kingdom Northerly or North-Easterly breezes over Scandinavia and northern Russia, and North-Westerly to Westerly winds in the districts bordering the northern shores of the Black Sea. North-Westerly breezes blowing over Spain, but no distinct circulation over the Mediterranean. No change of importance elsewhere.

Barometer at 8.0 a.m. highest, (1) 30·0 ins. and above over Norway and to the northward of Scotland and also in an area embracing the western coasts of the Iberian Peninsula and the neighbouring parts of the Atlantic, and (2) 29·9 ins. and upwards in a small anticyclone covering Corsica and Sardinia. Lowest, (1) 29·4 ins. and less in a depression lying between Kharkov and Moscow; (2) 29·6 ins. and less in another system over the south-west of England, the western part of the Channel and Brittany, and (3) 29·8 ins. and less in a shallow disturbance over the west of Spain. Russian depression moving south-westwards later and that in the south-west of our Islands south-eastwards, and a new depression appearing over the Riveria.

Wednesday, 3rd July.

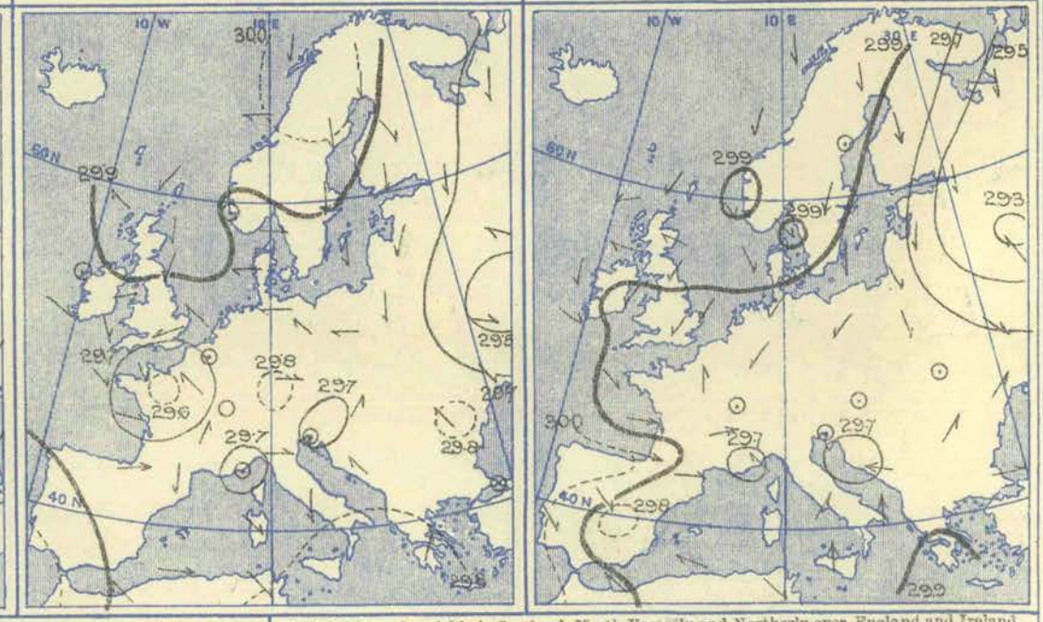
Temperature and Weather. 8 a.m.



Weather in morning fine and bright in most parts of southern Europe, England and Scandinavia; cloudy or dull generally over Ireland, Scotland, France and Germany as well as in Spain. Cloudy and unsettled in Russia, with rain at Moscow. Rain also falling at Leith and over western and southern Germany and at Biarritz. Considerable falls of rain later over France, at St. Petersburg and Archangel, and as much as 0·91 ins. at Turin and 1·50 ins. at Florence. Sky clearing over Ireland and Scotland.

Temperature at 8.0 a.m., highest, 83° at Athens and La Calle, 81° at Stax and Algiers, and above 70° at almost all the Mediterranean and Adriatic stations. Highest elsewhere, 66° at Odessa and 64° in Denmark. Lowest, (1) 51° at Bodö and 52° at Haparanda and Archangel; (2) 51° or 52° on the east and north-east coast of Scotland; (3) 52° at Warsaw and Kiev; (4) 51° at Munich and 54° at Limoges. Rising later to 71° in the Hebrides, 74° over the central parts of England and Ireland, 81° at Nice, 86° at Trieste and Rome, 94° at Brindisi, and 103° at Palermo. Maximum at Biskra (inland Algeria) 112°.

Barometer and Wind. 8 a.m. and 6 p.m.

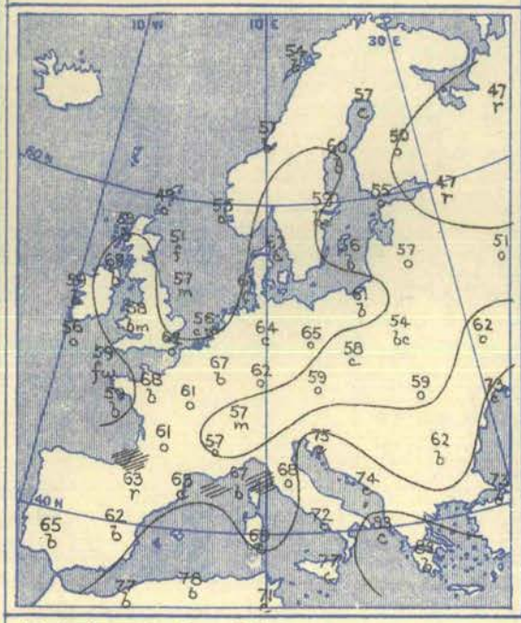


Wind light and variable in Scotland, North-Easterly and Northerly over England and Ireland, Westerly and North-Westerly in the Bay of Biscay, South-Westerly over central France, and South-Easterly at Paris. Moderate and mainly from the Northward over Scandinavia and Russia. No decided current over central Europe and the Mediterranean. Wind changing little in our Islands later, veering somewhat over the north-west of France and a distinct circulation of fresh anticyclonic winds setting in over the Gulf of Genoa. A South-Westerly and Southerly breeze springing up over Italy.

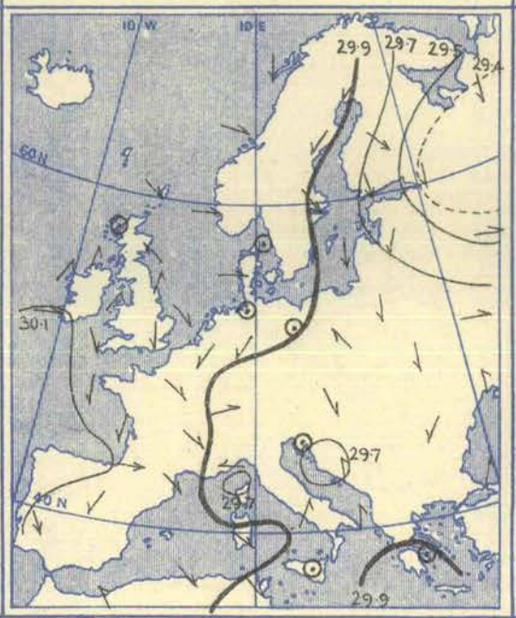
Barometer in morning highest, 30·0 ins. over the north of Scandinavia on the one hand, and over the south-west of Spain on the other. Lowest (1), 29·5 ins. and less over Little Russia; (2) 29·6 ins. and less over Normandy; (3) 29·7 ins. and less over the Riviera and the Gulf of Genoa, and in an elongated depression extending from south-west to north-east over southern Austria. Russian disturbance moving northwards later and that over Normandy slowly dispersing. Not much change elsewhere, but a depression forming over central Spain, and two very shallow systems over the west and south of Scandinavia.

Thursday, 4th July.

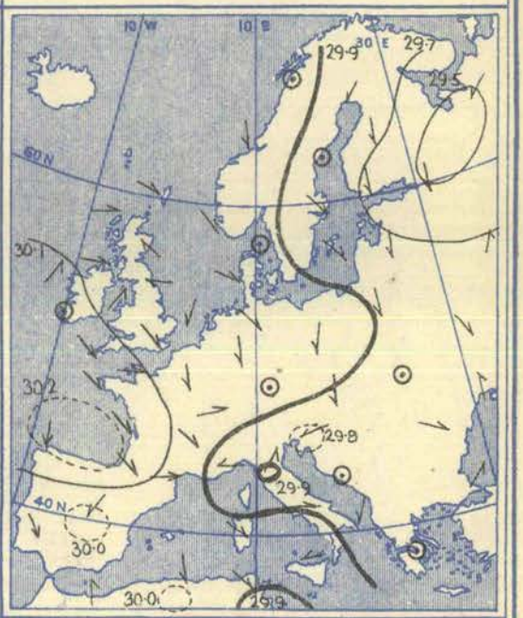
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright generally, but dull over the greater part of Russia, with rain at St. Petersburg, Helsingfors and Archangel; rain also falling at Turin. Fog on our south-west coasts. Slight rain later at some of our western and northern stations, the east of France, and rather heavier falls in some parts of Austria and Italy, and also at Münster.

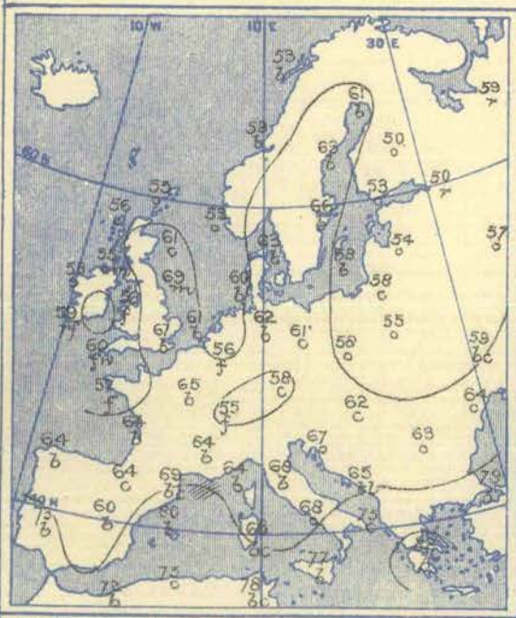
Temperature in morning highest, 83° at Brindisi, 82° at Athens, and 77° or 78° on the Algerian coast; above 70° at the Mediterranean stations generally, but only 59° at Cape Sicié. Highest in our Islands, 69° at Malin Head and 68° at Holyhead and Liverpool. Lowest, (1) 47° at St. Petersburg and Archangel, 48° at Helsingfors; (2) 49° in the Shetlands, 51° at Aberdeen, and 55° over central England, (3) 54° at Warsaw. Rising during day to 81° at Loughborough, 80° in London and the northern parts of central England, 86° at Madrid and Palermo, 90° at Tunis, and 104° at Biskra.

Wind light from the South-Westward on our north-western coasts and from the Northward or North-Westward over the greater part of England and France. Variable over southern Europe generally, but South-Westerly in Italy. Mainly Northerly over Scandinavia and northern Russia (strong in the Baltic), but Westerly over central and southern Russia. Very little change later, but wind becoming more variable over our Islands and a cyclonic circulation setting in over Spain.

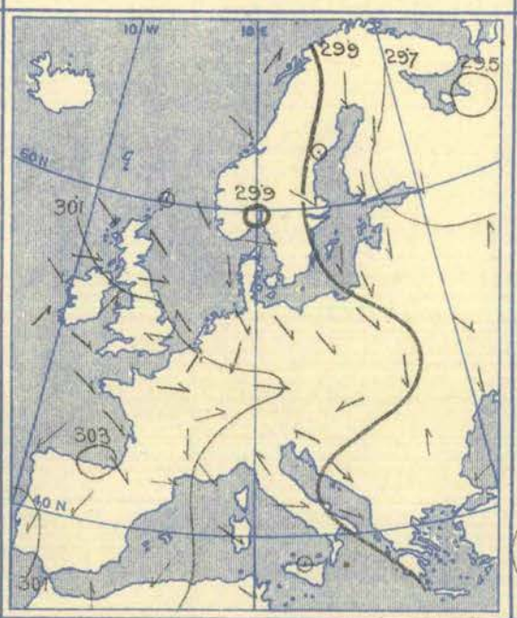
Barometer in morning highest, 30·1 ins. over the south-west of Ireland and the western parts of the Bay of Biscay, and 30·0 ins. and upwards over nearly the whole of Great Britain. Lowest, 29·4 ins. in a depression over northern Russia, and 29·7 ins. and less in two other systems lying respectively over Bosnia and the Gulf of Genoa. Russian depression moving northwards later and filling up somewhat, and the two southern systems remaining almost stationary. A shallow depression forming over central Spain. Western anticyclone extending slowly north-eastwards and eastwards over the United Kingdom.

Friday, 5th July.

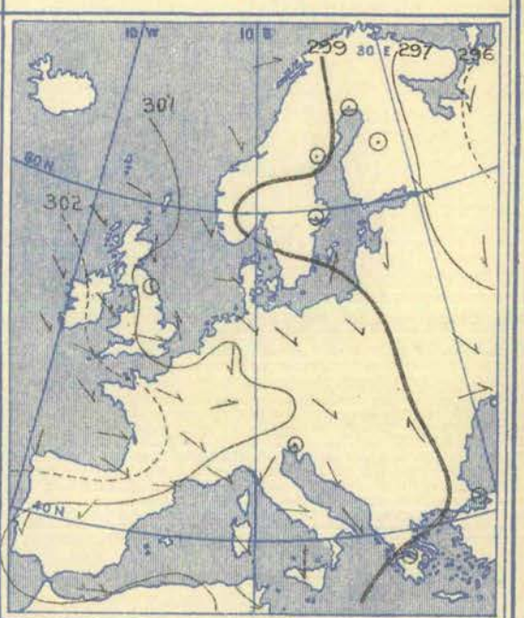
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull at most of our western and northern stations, rainy at Valencia and Donaghadee, and foggy at several of our south-western coast stations. Still fine and bright in other parts of our Islands, in most parts of central and southern Europe (but a thunderstorm prevailing at Pesaro). Fine in Scandinavia, but dull over northern Russia, with rain at Archangel and St. Petersburg. Rain falling later in several parts of England and in Austria.

Temperature changed very irregularly. Highest, 82° in Greece, 79° at Constantinople, and 80° at Barcelona; above 70° over southern Europe generally. Highest in the United Kingdom, 69° at Shields, 68° at Loughborough, and 66° at Leith. Lowest, (1) 50° at St. Petersburg and Kuopio, 53° at Archangel; (2) 53° at Skudesnaes, and 55° at Sumburgh Head. Rising during day to 77° at Shields, 82° at Loughborough, 83° in London and at Perpignan, 86° at Madrid, 93° at Brindisi and Oporto, and to 93° at Biskra (Algeria). Maxima of 77° at Haparanda and Stockholm, but thermometer not touching 60° on some parts of our own north-western and northern coasts.

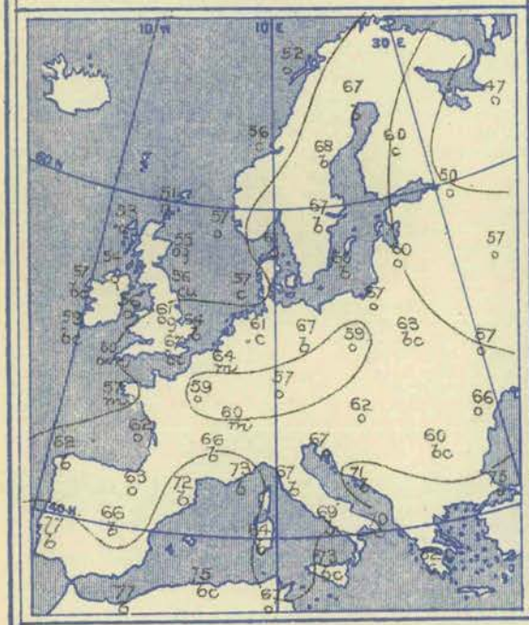
Wind in morning light and variable or North-Westerly over our Islands, France and Scandinavia, as well as Denmark and Germany. Light and variable, but chiefly Northerly over Russia, North-Westerly to Westerly in the Adriatic and over Greece. No decided current over the Algerian or Spanish coasts. No change of great importance later, but a North-Easterly to Northerly wind springing up over the northern and western parts of the Iberian Peninsula.

Barometer risen very generally. Highest, 30·2 ins. and upwards over the south-west of our Islands, the west of France, and the Bay of Biscay. Lowest, 29·5 ins. in a depression over northern Russia. Anticyclone decreasing slightly in height during day, and Russian depression moving away eastwards. A shallow depression forming over the central parts of Spain.

Saturday, 6th July.

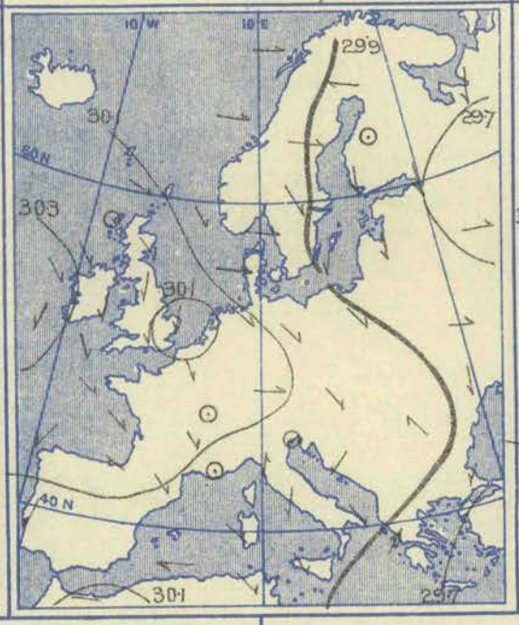
Temperature and Weather.

8 a.m.

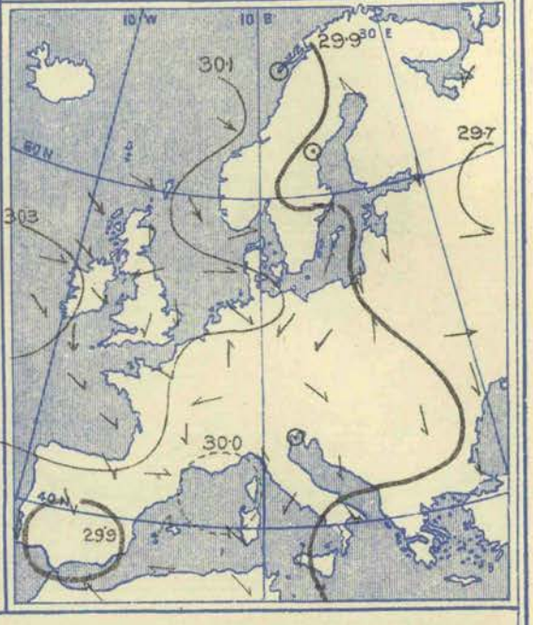


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in all the most southern countries and also in Sweden, but cloudy or dull over the greater part of Russia, central Europe, France, the United Kingdom and Norway, with rain at Leith and Spurn Head, and fog in the Straits of Dover. Very slight rain later at Malin Head, Blacksod and Loughborough, and in some localities over France, dull over our Midland stations generally.

Temperature fallen decidedly in most parts of the United Kingdom and the neighbouring parts of the Continent, but risen generally elsewhere. Highest at 8 a.m., 82° at Athens, 79° at Barcelona, 77° at Lisbon and Nemours, and above 70° over the Mediterranean generally. Highest in our Islands, 67° in London. Lowest, (1) 47° at Archangel, 50° at St. Petersburg, and 51° at Boulö; (2) 51° at Sumburgh Head and less than 55° at most of our extreme northern stations—(3) 58° in the Straits of Dover. Rising during day to 73° in London, 76° at Portland Bill, 82° at Berlin and Nice, 86° at Hernösand, 95° at Cette, 93° at Madrid and Brindisi.

Wind mainly Northerly (North-West to North-East) and light to moderate in force over Europe generally, but variable at some of the Mediterranean stations, and South-Westerly in Greece. Local South-Westerly winds also prevailing over the north-east of France and the Netherlands. Becoming Northerly over the Baltic later. No decided change elsewhere.

Barometer risen slowly over north-western and northern Europe, fallen in the extreme south-west. Highest in morning, 30·2 ins. and upwards over Scotland, Ireland, Wales, and the Bay of Biscay. Lowest, 29·7 ins. in a depression over central Russia, and 30·1 ins. and less in a very shallow disturbance over our south-eastern coasts and the Netherlands. Rising slightly in our Islands during the day, falling at Paris.

GENERAL NOTES.

During the earlier half of the week two areas of high pressure were shown—one over Scandinavia and the other over the Spanish Peninsula—while a depression which had advanced over the south of England from the south-westward moved very slowly south-eastwards and dispersed over France. Another and deeper system was at the same time travelling northwards over Russia. Local depressions, some of them rather deep, also appeared from time to time over the Gulf of Genoa and different parts of southern Europe. By Thursday, the northern high pressure had given way and an anticyclone of gradually increasing height extended slowly from the south-westward until, by the end of the period, it embraced the greater part of the United Kingdom and the Bay of Biscay. Depressions continued to exist in Russia and in various parts of the Mediterranean and southern Europe, but they were generally of less energy and their gradients slight. The only disturbance of consequence to appear over our Islands was a shallow system that formed over the south-east of England on the night of Friday—Saturday. The weather was mostly fine, but heavy falls of rain were experienced locally over southern and central England at the commencement of the period, and very large quantities at some of the French, north Italian and central European stations later in the week. Fog occurred from time to time on our west and south-west coasts. Light and moderate breezes between North-West and North-East were mainly prevalent in all the more northern countries, and very variable winds in the south. Temperature was high over England on Friday and was occasionally very high over southern Europe, but the readings, as a rule, did not differ much from the normal.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	26·3	- 7·2	22	- 5	BRIGHTON	45·3	- 6·7	40	- 7
STRATHPEFFER SPA	52·2	+20·6	42	+16	WORTHING	50·5	?	45	?
EDINBURGH	19·4	-13·9	16	-12	BOGNOR	53·8*	?	48*	?
MORPETH	50·2	?	42	?	WATERGATE (Emsworth)	47.8	?	42	?
NEWCASTLE-ON-TYNE	43·0	?	36	?	WESTBOURNE (Emsworth	52·4*	+ 1·9	46*	+ 1
OSWALDKIRK (Yorkshire)	40·1	+ 3·1	34	+ 2	VENTNOR HOSPITAL	45·7	- 1·8	40	- 2
YORK	49·5	+ 9·8	42	+ 8	BOURNEMOUTH	45·2	?	40	?
LOWESTOFT	37·6	?	33	?	SOUTHPORT	55·6	?	48	?
HOLLESLEY BAY	47·8	?	42	?	RHYL	53·6*	?	46*	?
SHEFFIELD	28·1	?	24	?	COLWYN BAY		?		?
WORKSOP	24·7	-12·5	21	-11	ABERDOVEY	52·5*	?	45*	?
THURCASTON (Leicestershire)	33·5	- 6·8	29	- 6	TENBY	38·8	-10·7	34	-10
MARGATE	49·6	+ 5·1	44	+ 4	NEWQUAY	35·0	-14·7	31	-14
BROADSTAIRS		?		?	TORQUAY	35·7	- 5·8	32	-15
EASTBOURNE	45·3	- 6·7	40	- 7	GUERNSEY	47·1*	-10·7	42*	-11

* The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending June 1st, 1901	Rhyl	—	—	—	—	—	—	—	—	—	—	—	50·7	?	45	?
,, ,, ,, 8th, ,,	Swarraton	73	43	68·4	48·9	58·6	+3·8	112	0	0	—	-0·45	—	—	—	—
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	59·1	?	51	?
,, ,, ,, 15th, ,,	Swarraton	76	38	64·4	43·7	53·3	-2·3	79	0	2	0·15	-0·31	—	—	—	—
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	52·6	?	45	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 28.] *Third Series.* WEEK ENDING SATURDAY, JULY 13TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 164.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	87	44	68·4	52·1	59·7	5 above	124	+41	0	0	1007	+131	561	− 1
	1. SCOTLAND, EAST	85	44	73·5	51·6	61·8	5 „	139	+38	0	0	1069	− 7	657	+45
	2. ENGLAND, N.E.	83	47	70·9	53·7	62·0	4 „	140	+28	0	0	1162	+ 27	516	+ 9
	3. ENGLAND, EAST	86	44	72·2	52·2	61·4	2 „	136	+10	0	0	1282	− 78	560	+ 8
	4. MIDLAND COUNTIES	86	46	75·3	54·4	64·1	5 „	155	+34	0	0	1357	− 27	591	+32
	5. ENGLAND, SOUTH	87	45	73·5	55·2	63·7	3 „	152	+20	0	0	1382	−111	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	77	41	70·5	52·8	61·1	4 „	134	+30	0	0	1183	+ 15	470	+36
	7. ENGLAND, N.W.	88	43	72·9	54·7	63·1	4 „	148	+34	0	0	1262	+ 8	453	+44
	8. ENGLAND, S.W.	86	47	73·6	55·5	63·9	4 „	153	+34	0	0	1431	+ 25	369	+51
	9. IRELAND, NORTH	76	47	66·6	54·3	60·1	3 „	127	+22	0	0	1190	− 68	374	+11
	10. IRELAND, SOUTH	77	43	69·1	55·0	61·6	3 „	137	+21	0	0	1391	− 79	325	+63
	—CHANNEL ISLANDS	80	55	70·6	58·2	64·0	3 „	154	+24	0	0	1621	+ 2	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 164.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	1	7 less	117	− 1	19·0	− 4·8	41	+12	34	+ 9	811	+109	32	+ 4
	1. SCOTLAND, EAST	1	less than ½	6 „	100	0	13·0	− 1·9	60	+24	51	+20	881	+105	35	+ 4
	2. ENGLAND, N.E.	1	1	5 „	93	− 1	10·4	− 1·6	61	+21	52	+18	923	+153	37	+ 6
	3. ENGLAND, EAST	1	1	4 „	93	− 2	10·2	− 1·7	60	+13	53	+12	1032	+ 92	39	+ 3
	4. MIDLAND COUNTIES	0	1	5 „	87	− 3	12·4	− 1·1	47	+ 7	41	+ 6	888	+104	37	+ 4
	5. ENGLAND, SOUTH	1	4	1 „	80	− 9	11·6	− 1·6	64	+14	57	+12	1056	+106	42	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	8 „	98	−10	20·6	− 4·3	63	+24	54	+20	969	+151	38	+ 6
	7. ENGLAND, N.W.	0	—	7 „	93	− 4	12·0	− 3·7	72	+30	63	+24	1035	+190	41	+ 8
	8. ENGLAND, S.W.	1	1	6 „	86	−16	17·1	− 2·0	58	+12	52	+10	1058	+ 88	43	+ 4
	9. IRELAND, NORTH	3	2	6 „	113	− 3	16·7	− 0·4	26	− 6	22	− 6	865	+ 96	34	+ 2
	10. IRELAND, SOUTH	1	1	6 „	94	−13	17·0	− 2·9	41	+ 5	36	+ 4	936	+ 75	37	+ 3
	— CHANNEL ISLANDS	1	3	3 „	105	+ 2	15·5	+ 0·4	72	+11	65	+ 9	1108	− 22	44	− 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather of this period was fine and warm in all parts of the United Kingdom. Thunderstorms were reported in the northern and north-western districts about the middle of the week, and over the south of England towards the end of the time. Mist or fog was reported rather generally on one or two days.

Temperature was above the mean in all districts, the excess ranging from 5° in Scotland N. and E. and the Midland Counties, 4° in Scotland W., England N.W. and S.W. to 3° in all other places except in England N.E. where it was only 2° above normal. The highest of the maxima were mostly registered on the 11th and varied from 88° in England N.W., 87° in Scotland N. and England S., 86° in England E., S.W. and the Midlands, to 77° in Scotland W. and Ireland S. and 76° in Ireland N. The lowest of the minima occurred on irregular dates ; they ranged from 41° in Scotland W. and 43° in England N.W. and Ireland S. to 47° in England N.E. and S.W. In the Channel Islands the lowest reading was not below 55°.

Rainfall was less than the mean in all districts, the deficit being considerable over the greater part of the country. In England S., however, the amount for the week differed but little from the average, due to some rather weighty falls which occurred during thunderstorms towards the close of the week. The greatest of these was 1·31 ins. reported at Hastings on Friday.

Bright Sunshine was in excess in all parts of the United Kingdom, except in Ireland N. where there was a deficiency. The percentage of the possible duration ranged from 65 in the Channel Islands 63 in England N.W. and over 50 in most other English and Scotch districts, to 34 in Scotland N. and 22 in Ireland N.

Barometer and Wind. During the earlier part of the week barometrical pressure was highest in a large anticyclone lying over the whole of our Islands and the north of France, lowest over central Russia and the Mediterranean, the resulting winds being Westerly to South-Westerly in the north and Easterly in the south. By the middle of the week the anticyclone began to move away to the eastward, and depressions commenced to travel in a northerly direction outside our north-western and western coasts. Later in the period, however, another high pressure system advanced over our own western and south-western districts from the Atlantic, and Westerly to Northerly breezes became general over the whole country, and thunderstorms were developed in many districts—notably in the south-east.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	69	46	62·3	50·7	56·1	+ 4·0	99	0	3	0·09	− 0·42	*	*	*	*
	Stornoway	73	50	65·9	50·7	57·8	+ 3·7	111	0	3	0·10	− 0·56	51·5	+18·9	42	+14
	Wick	78	48	69·6	53·3	60·9	+ 6·2	132	0	3	0·21	− 0·34	*	*	*	*
	Lairg Ş	87	44	75·2	50·9	62·2	+ 8·2	141	0	3	0·25	− 0·42	*	*	*	*
	Glencarron Ş	74	49	66·6	52·8	59·2	+ 4·7	120	0	2	0·25	− 1·08	*	*	*	*
	Fort Augustus Ş	78	48	73·0	52·6	62·3	+ 6·2	142	0	0	—	− 0·67	38·3	+16·3	32	+13
	Fort William Ş	72	50	65·9	53·5	59·3	+ 3·0	121	0	2	0·10	− 1·03	26·5	− 3·5	22	− 4
1. SCOTLAND, E.	Nairn	85	45	74·9	50·0	61·6	+ 5·0	137	0	3	0·05	− 0·53	*	*	*	*
	Aberdeen	76	44	68·9	51·7	59·7	+ 3·2	124	0	1	0·05	− 0·55	62·0	+25·0	52	+20
	Braemar Ş	76	45	71·1	50·7	60·2	+ 6·0	127	0	1	0·02	− 0·60	*	*	*	*
	Ochtertyre Ş	82	46	76·1	51·9	63·2	+ 5·5	148	0	0	—	− 0·69	*	*	*	*
	Leith	79	50	73·9	54·4	63·5	+ 5·4	151	0	1	0·11	− 0·47	*	*	*	*
	Marchmont Ş	82	45	76·2	51·1	62·8	+ 6·5	146	0	1	0·02	− 0·73	70·0	+31·1	59	+26
2. ENGLAND, N.E.	Alnwick Castle	79	47	70·8	52·5	61·0	+ 4·1	133	0	1	0·02	− 0·58	*	*	*	*
	Durham	80	49	75·1	51·4	62·4	+ 4·2	143	0	1	0·24	− 0·36	70·1	+32·3	60	+27
	Shields	77	49	69·4	54·6	61·5	+ 4·3	137	0	1	0·08	− 0·47	*	*	*	*
	Scarborough ℳ	71	?	67·0	?	?	?	?	?	0	—	− 0·58	59·4	?	51	?
	Spurn Head	68	53	65·9	55·7	60·4	+ 1·0	129	0	0	—	− 0·36	*	*	*	*
	Fulbeck (Lincolnshire)	83	51	77·0	54·4	64·9	+ 5·0	160	0	0	—	− 0·52	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	86	46	76·4	51·6	63·1	+ 3·1	148	0	1	0·13	− 0·48	57·7	+12·9	50	+11
	Yarmouth	71	51	65·3	54·6	59·1	− 0·6	120	0	1	0·01	− 0·58	*	*	*	*
	Geldeston	82	44	70·4	50·8	59·9	+ 0·3	125	0	1	0·05	− 0·50	56·0	+ 8·2	50	+ 7
	Cambridge	85	48	77·5	53·2	64·5	+ 3·7	158	0	1	0·08	− 0·45	61·7	+15·9	55	+14
	Felixstowe	75	47	67·6	52·9	59·7	+ 0·1	124	0	1	0·14	?	60·6†	?†	54†	?†
	Rothamsted	84	44	75·8	50·2	62·1	+ 2·5	141	0	1	0·41	− 0·16	65·8	+18·3	58	+16
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	83	50	78·3	54·9	65·8	+ 6·4	167	0	0	—	− 0·58	*	*	*	*
	Loughborough	85	48	77·3	53·1	64·4	+ 4·4	157	0	0	—	− 0·51	*	*	*	*
	Colly Weston (Stamford)	85	49	77·1	53·9	64·7	+ 4·7	159	0	0	—	?	*	*	*	*
	Cheadle ℳ	79	52	73·6	55·7	64·0	+ 4·7	154	0	0	—	− 0·66	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	82	54	73·6	56·3	64·4	+ 5·0	157	0	0	—	− 0·60	33·3	?	29	?
	Churchstoke ℳ	83	46	74·6	51·0	62·0	+ 4·4	140	0	0	—	− 0·53	48·0	+ 5·5	42	+ 4
	Hereford (Belmont) ℳ	81	49	73·2	55·0	63·5	+ 3·3	151	0	0	—	− 0·50	*	*	*	*
	Cirencester	84	47	73·9	54·6	63·6	+ 4·4	151	0	2	0·40	− 0·21	49·8	+ 5·2	44	+ 4
	Oxford	86	49	75·7	54·9	64·7	+ 4·0	159	0	1	0·10	− 0·45	55·5	+10·2	49	+ 8
5. ENGLAND, S.	London	87	48	79·0	54·9	66·1	+ 3·9	169	0	0	—	− 0·50	53·1†	+11·1†	47†	+ 9†
	Swarraton (Alresford) ℳ	83	45	74·8	50·9	62·0	+ 2·4	140	0	2	0·46	− 0·11	*	*	*	*
	Dungeness	75	50	68·0	56·1	61·6	+ 1·1	137	0	2	0·75	+ 0·39	70·7	?	63	?
	Hastings (St. Leonards)	79	49	71·6	54·9	62·7	+ 2·3	145	0	2	1·48	+ 1·00	77·6	+25·4	69	+22
	Southampton	84	51	77·3	55·6	65·7	+ 3·8	166	0	1	0·32	− 0·23	60·3	+10·8	54	+ 9
	Portland Bill	79	55	69·6	57·4	63·1	+ 3·9	148	0	0	—	?	*	*	*	*
	Shaftesbury ℳ	85	52	74·2	56·6	64·8	+ 6·4	160	0	1	0·05	− 0·58	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	77	50	68·6	54·4	61·0	+ 4·2	133	0	2	0·17	− 0·95	*	*	*	*
	Glasgow	76	48	71·2	54·0	62·0	+ 4·7	140	0	0	—	− 0·72	44·7	+11·9	38	+10
	Glenlee Ş	77	41	72·6	51·2	61·2	+ 3·9	134	0	0	—	− 0·88	*	*	*	*
	Douglas (Isle of Man)	75	47	69·7	51·7	60·1	+ 2·9	127	0	0	—	− 0·65	80·3	+34·3	69	+29
7. ENGLAND, N.W.	Newton Reigny	88	43	77·1	51·9	63·6	+ 6·8	151	0	0	—	?	64·0	?	55	?
	Stonyhurst	82	54	74·9	55·6	64·3	+ 6·1	156	0	0	—	− 0·90	66·7	+26·2	58	+22
	Blackpool ℳ	79	49	71·7	55·3	62·9	+ 3·7	146	0	0	—	− 0·64	75·9	+34·3	65	+28
	Manchester (Prestwich)	84	52	77·2	54·9	65·3	+ 6·9	163	0	0	—	− 0·80	64·5	?	56	?
	Liverpool Obsy. (Bidston)	84	53	71·6	57·3	64·0	+ 4·8	154	0	0	—	− 0·60	68·8	?	60	?
	Chester (Hawarden Bridge)	84	49	73·7	54·6	63·5	+ 3·8	151	0	0	—	?	*	*	*	*
	Llandudno ℳ	80	49	70·4	54·5	61·9	+ 2·2	139	0	0	—	− 0·54	69·8	+28·6	61	+24
	Holyhead	74	49	66·4	53·7	59·6	+ 1·2	123	0	0	—	− 0·54	*	*	*	*
8. ENGLAND, S.W.	Llandovery	86	47	79·1	50·7	63·9	+ 5·0	153	0	0	—	− 0·84	*	*	*	*
	Pembroke	74	52	67·9	56·4	61·8	+ 3·8	139	0	1	0·01	− 0·53	69·7	+22·7	62	+19
	Clifton	82	56	75·0	58·8	66·3	+ 5·8	170	0	1	0·37	− 0·26	*	*	*	*
	Bath	83	50	75·9	55·0	64·7	+ 3·8	159	0	2	0·53	?	49·4	?	44	?
	Arlington (N. Devon)	80	49	72·6	53·4	62·3	+ 4·1	142	0	0	—	− 0·93	*	*	*	*
	Cullompton ℳ	83	47	76·0	54·1	64·3	+ 3·8	156	0	1	0·08	− 0·54	48·7	+ 5·9	43	+ 4
	Falmouth	77	52	69·3	57·4	62·9	+ 3·2	146	0	0	—	− 0·67	59·9	+ 8·4	54	+ 7
	Plymouth	78	54	72·8	58·1	64·9	+ 4·2	160	0	0	—	− 0·59	62·9	+15·7	57	+14
9. IRELAND, N.	Malin Head	70	54	63·7	54·7	58·9	+ 2·5	118	0	3	0·12	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	76	48	68·1	54·3	60·7	+ 4·3	131	0	2	0·14	− 0·59	*	*	*	*
	Blacksod Point	67	55	63·3	56·3	59·6	+ 2·1	123	0	4	0·31	?	*	*	*	*
	Markree Castle	75	50	68·3	55.0	61·2	+ 4·7	134	0	3	0·23	− 0·57	20·4	− 9·6	18	− 8
	Armagh	76	48	70·7	53·4	61·5	+ 4·3	137	0	2	0·11	− 0·57	30·6	− 2·4	26	− 3
	Donaghadee	73	47	65·6	52·3	58·5	+ 1·3	116	0	1	0·05	− 0·57	*	*	*	*
10. IRELAND, S	Dublin	77	50	70·3	55·7	62·5	+ 2·8	144	0	1	0·01	− 0·54	55·7	+17·4	48	+14
	Parsonstown	77	46	70·4	54·6	62·0	+ 3·8	140	0	1	0·04	− 0·61	33.9	+ 1·7	29	0
	Kilkenny	77	43	71·3	52·9	61·5	+ 3·7	137	0	0	—	− 0·58	*	*	*	*
	Roche's Point	71	52	66·6	56·0	60·9	+ 1·7	132	0	1	0·05	− 0·63	*	*	*	*
	Valencia	71	51	65·7	54·4	59·7	+ 1·5	124	0	2	0·06	− 0·81	32·5	− 3·5	29	− 4
	Killarney	77	50	70·4	55·2	62·3	+ 4·3	142	0	1	0·15	− 0·62	*	*	*	*
	Foynes	75	53	69·3	55·9	62·1	+ 4·6	141	0	2	0·33	− 0·35	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	56	66·1	57·7	61·6	+ 1·8	137	0	0	—	− 0·50	75·7	?	68	?
	Jersey	80	55	75·1	58·6	66·3	+ 4·8	170	0	1	0·51	+ 0·01	79·2	+23·9	72	+21

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

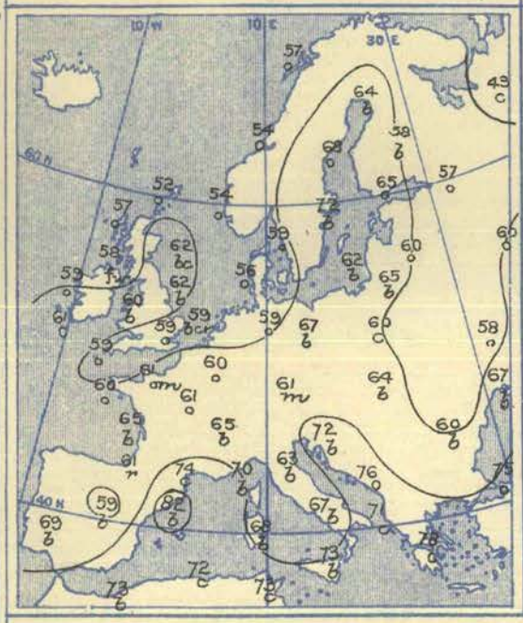
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 7th July.

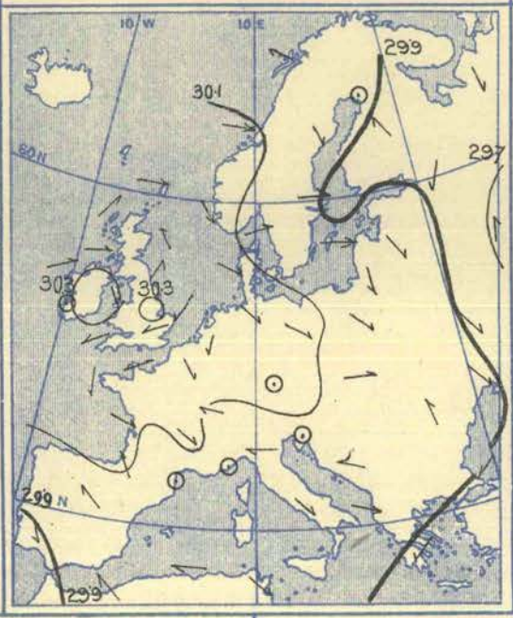
Temperature and Weather.

8 a.m.

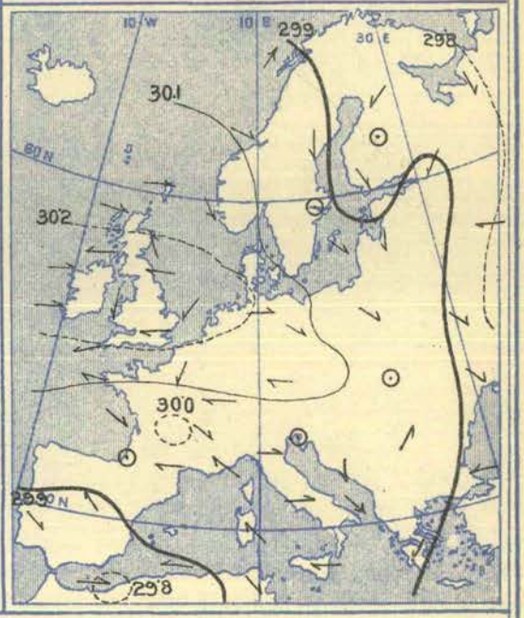


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning, fair over the United Kingdom and North Sea as a whole, but dull in many places, clear and bright over the Continent except on the west coast of Norway. Considerable rain at Bodö later, and some at Haparanda and Christiansund, at Archangel and Uleaborg. A slight trace at Bilbao and Biarritz also; sky clearing over the British Islands.

Temperature fallen several degrees over our southern counties and the North Sea. Morning readings highest, 82° at Barcelona, 77° to 70° over the north of Africa, Greece and the Adriatic, 70° to 60° over France and Sweden, and above 60° over Germany and several parts of the British Islands. Lowest, 43° at Archangel, 52° at Sumburgh Head, 56° at Fano, 58° at Donaghadee. Rising later to between 70° and 75° in many parts of our Islands, 82° at Nairn, 81° at Berlin and Frankfort and in the west of France, 83° at Perpignan, 84° at Brindisi, 90° at Marseilles.

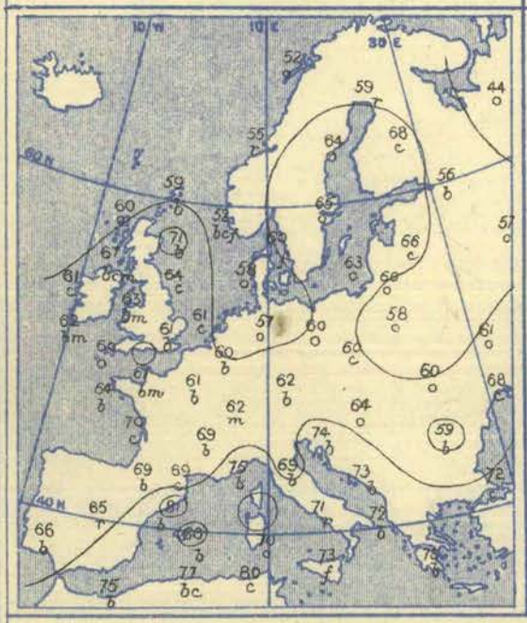
Wind light and anticyclonic all over our Islands and their neighbourhood (Westerly in the north, Easterly in the south), Northerly to Westerly on the coasts of countries lying to the eastward of the North Sea, North-Westerly in Germany, very variable over southern Europe. Becoming South-Westerly at Bodö later. No decided change elsewhere.

Barometer highest, 30·3 ins. and more to 30·2 ins. in a complex anticyclone covering the British Islands and their neighbourhood. Lowest, (1) 29·7 ins. and less over central Russia; (2) 29·9 ins. and less both over Asia Minor and off the south-west of Portugal. Giving way a little over the British Islands later, rising over central Russia.

Monday, 8th July.

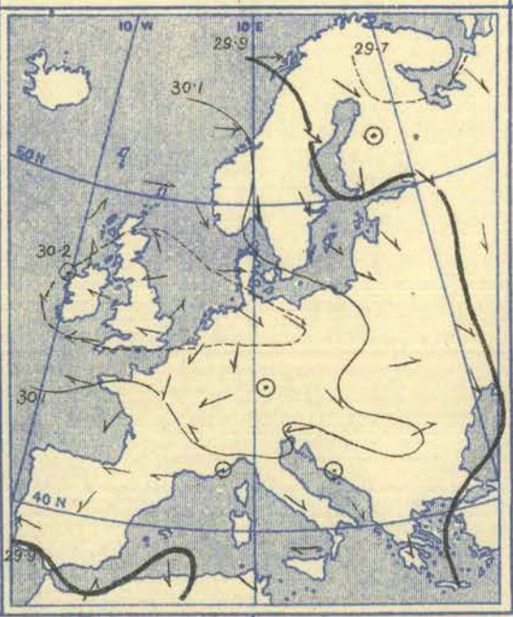
Temperature and Weather.

8 a.m.

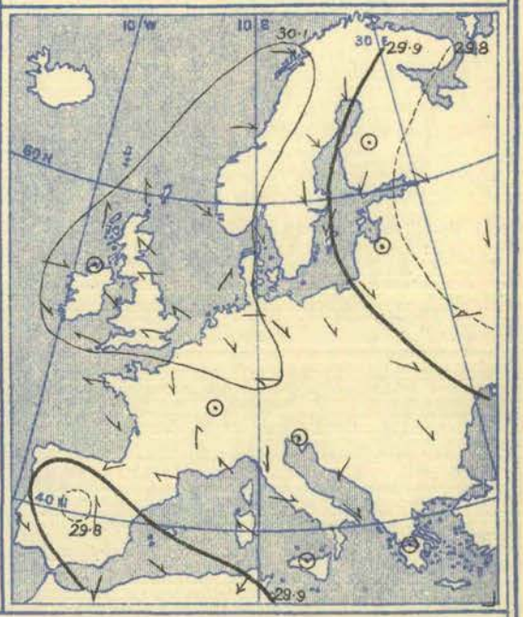


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over nearly the whole of central and western Europe—including the British Islands, dull over the major part of Hungary, Poland and Russia, rainy at the northern extremity of the Gulf of Bothnia and at Christiansund. A little rain measured later at Christiansund and at Nairn, more at Brest and Biarritz, and very local showers at some stations in Hungary. Much bright sunshine in the British Islands.

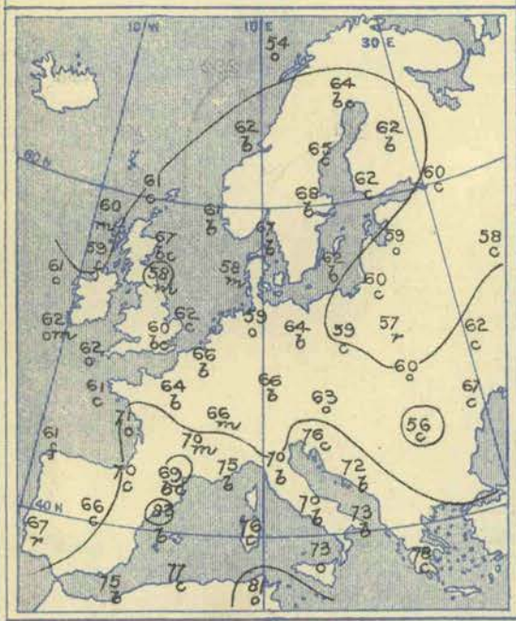
Temperature fallen over the Baltic and north Germany, risen over England. Morning readings ranging from 81° at Barcelona, 80° at La Calle and more than 70° at many of the Mediterranean and Adriatic stations (and also in the north-east of Scotland) to 60° and more over the major part of central and western Europe, to 58° at Fano, 52° at Bodö, and 44° at Archangel. Rising later to between 70° and 77° in many parts of our Islands, 80° at Paris, 90° to 93° in the west of France, 88° at Lyons, 91° at Madrid, and 100° at La Calle and Tunis.

Wind light and anticyclonic over our Islands, very strong Westerly to North-Westerly in Norway and some parts of Sweden, light and mainly Easterly over southern Europe. Decreasing in force later over Scandinavia and becoming more variable over southern Europe.

Barometer highest, 30·2 ins. and more over Ireland, England, the Netherlands, and part of north Germany. Lowest, about 29·7 ins. in the north and north-east of Russia and below 29·9 ins. in the extreme south-west of Spain, the north of Africa and over Asia Minor. Decreasing very generally later, and falling below 29·8 ins. not only over central Russia but at Madrid.

Tuesday, 9th July.

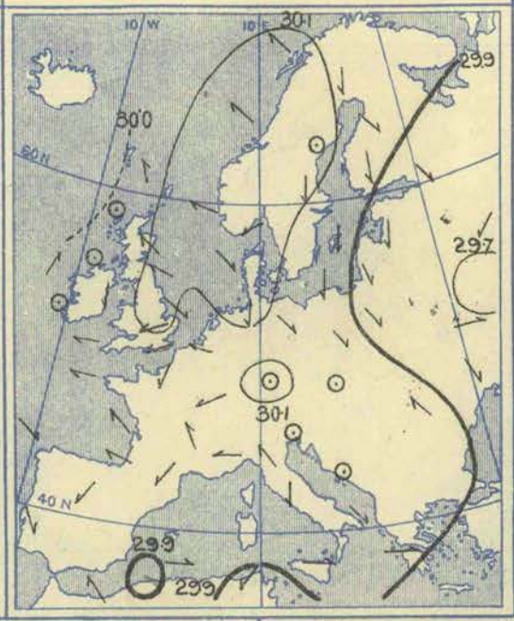
Temperature and Weather. 8 a.m.

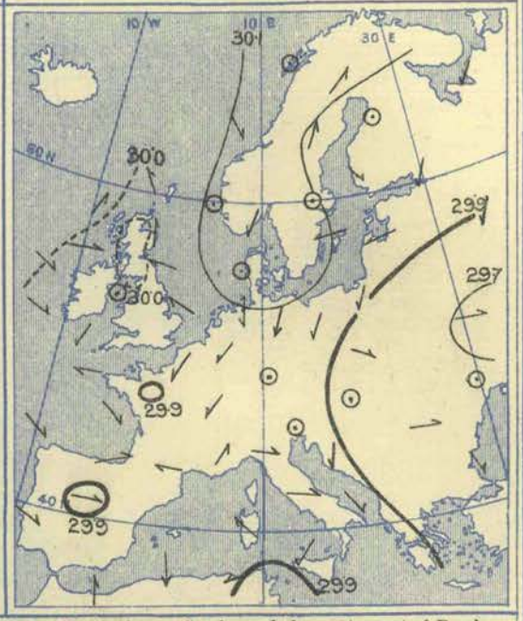


Weather in morning fine and bright over Europe as a whole, but dull in many parts of Austria-Hungary and on the western coasts of the Iberian Peninsula, as well as at most of the Algerian stations. Rain falling at Warsaw and Lisbon, and mist prevailing on our own western and south-western coasts. Slight rain experienced in isolated parts of Russia, France, and the United Kingdom later, and a thunderstorm occurring at Leith and in western, southern and central France.

Temperature changed irregularly. Readings at 8 a.m. highest, 83° at Barcelona, 81° at Tunis, and above 70° on the Mediterranean and Adriatic shores generally. Highest in our Islands, 67° at Aberdeen and Newton Reigny. Lowest, (1) 54° at Bodö, (2) 56° at Hermanstadt, (3) 57° at Warsaw. Rising during day to 79° at Liverpool, 80° in London, 81° at Newton Reigny, to between 80° and 86° at most of the French stations (but to 90° at Lyons) and to 93° at Madrid.

Barometer and Wind. 8 a.m. 6 p.m.



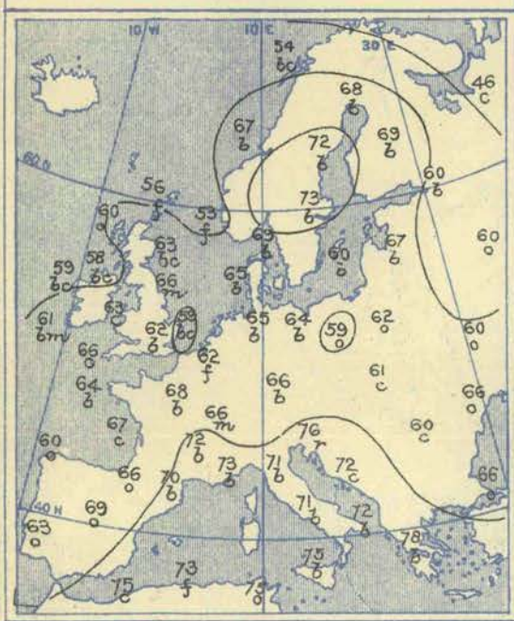


Wind light and variable generally, but Northerly over Sweden and the greater part of Russia, and strong in the Gulf of Bothnia. Very little change generally during day, but the Northerly wind extending to the western parts of Germany and Hungary and the strong breeze in the south-east of Sweden subsiding.

Barometer fallen somewhat over the United Kingdom, southern, central, and south-east Europe; risen over Scandinavia and Finland. Readings in morning highest, (1) 30·1 ins. and upwards in an anticyclone covering Norway and Sweden, Denmark, North Germany, the North Sea, and the east of England; (2) about the same value in the neighbourhood of Munich. Lowest, 29·7 ins. and less in a depression over Russia, and 29·9 ins. and less over Algeria. Russian depression moving south-eastwards later, a small low-pressure system forming over central Spain, and a very shallow depression appearing over Scotland.

Wednesday, 10th July.

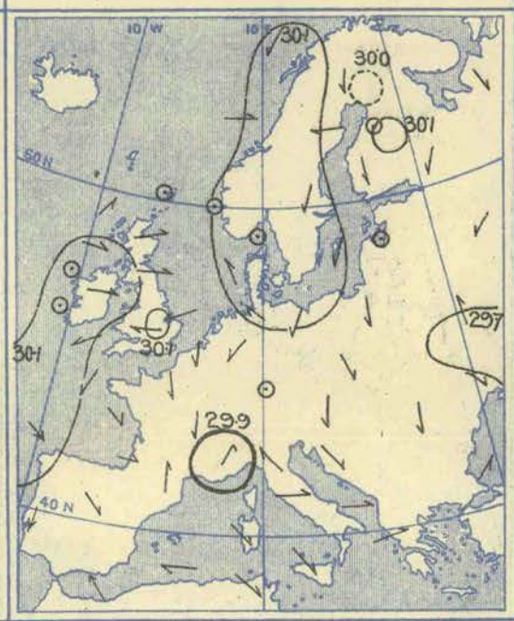
Temperature and Weather. 8 a.m.

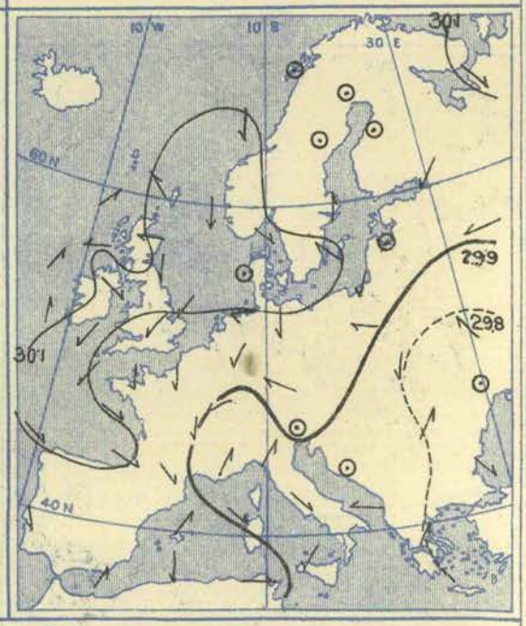


Weather in morning fine and bright in most regions, but dull in many parts of Russia, the north of Scotland and over the Spanish Peninsula. Rain falling at Hango. Rain later in Ireland and Scotland, several parts of central Europe, and thunderstorms over the southern half of France.

Temperature in morning (1) 78° at La Calle and Patras and above 70° over the south of France, Italy and Algeria; (2) 71° to 73° over southern and central Sweden. Lowest, (1) 46° at Archangel; (2) 54° at Bodö; (3) 56° at Sumburgh Head, and between 57° and 59° over the north of Ireland. Rising during day to 77° at Parsonstown, 82° or 83° over central England, 82° at Stockholm, 84° at Brussels and Frankfürt, 86° at Paris and Nice, 90° at Perpignan, and 93° at Cette.

Barometer and Wind. 8 a.m. 6 p.m.



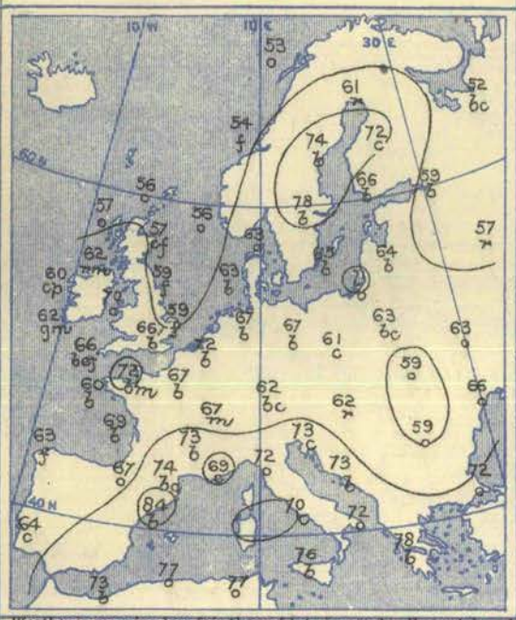


Wind at 8 a.m. light from the Northward over the Gulf of Bothnia, the Baltic, and central Europe, very light and variable elsewhere. Northerly current ceasing later, but a slight North-Easterly movement setting in over southern England, and light cyclonic winds over the south of Russia.

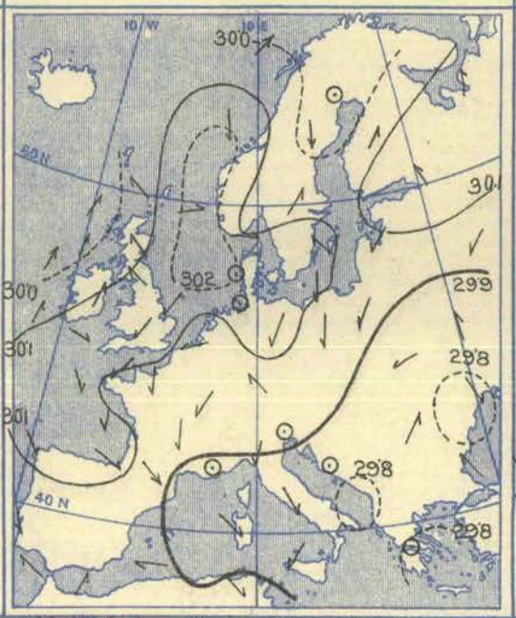
Barometer fallen over southern and south-eastern Europe, risen in most other regions. Highest in morning, (1) 30·1 ins. over Ireland and the adjacent parts of the Atlantic, and (2) over Scandinavia, Denmark and north Germany. Lowest, 29·7 ins. and less in a depression over the south of Russia, and 29·9 ins. and less in another system over south-eastern France and the Gulf of Lyons. The two high pressure areas merging later, Russian depression filling up somewhat, and that in the south-east of France growing less clearly defined. Barometer rising and becoming relatively high in the neighbourhood of the White Sea.

Thursday, 11th July.

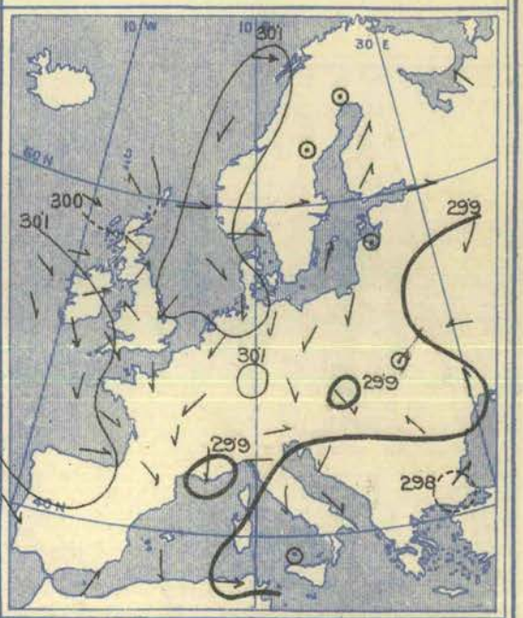
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning less fair than of late in nearly all countries. A good deal of cloud prevailing excepting on the Baltic shores, Denmark, north Germany and Greece, fog very general on the eastern coast of Great Britain and rain in the north of Ireland, at Buda Pesth and at Moscow. Rain later in the western and northern parts of the United Kingdom, at some of the Russian and Italian stations, and thunderstorms in the south of France. Fog clearing on our eastern coasts.

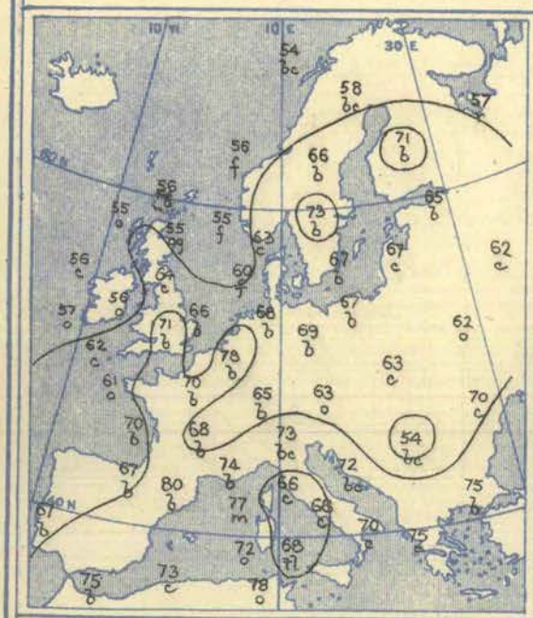
Temperature at 8 a.m. highest, 84° at Barcelona, 78° at Patras and also at Stockholm, 77° at Algiers and La Calle, and above 70° at nearly all the southern stations as well as at Memel and Kuopio. Lowest, (1) 52° at Archangel, (2) 53° at Bodo, (3) 56° in the Shetlands and at Spurn Head. Rising during day to 84° at Hernosand and Liverpool to between 85° and 87° over central England, Germany and the Netherlands, to 90° at Stockholm, and to more than 100° over central Algeria. Maxima not much above 60° on the west and north-west coasts of Ireland.

Wind mainly Northerly over the central countries of Europe and North-Easterly over France and the south of England. South-Westerly over Ireland and Scotland and also in Finland, rather variable elsewhere. Wind veering over Ireland and Scotland later and Northerly current over the central countries undergoing some modification. No important change elsewhere.

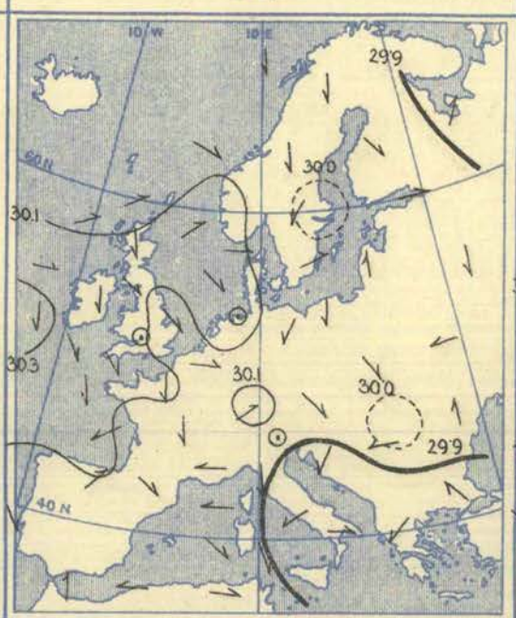
Barometer at 8 a.m. 30·2 ins. in an irregularly shaped anticyclone over the west of Norway, Denmark and the North Sea, and 30·1 ins. and upwards in a long ridge stretching north-eastwards over northern Russia. Lowest, 29·8 ins. and less in three separate depressions over south-eastern Europe, and 30·0 ins. and less in two other systems lying respectively over the Gulf of Bothnia and our north-west coasts. Depressions in south-east dispersing somewhat during day and the northern disturbances moving slowly eastwards. Another anticyclone spreading over our western coasts and the Bay of Biscay, but barometer falling within the Norwegian high pressure system.

Friday, 12th July.

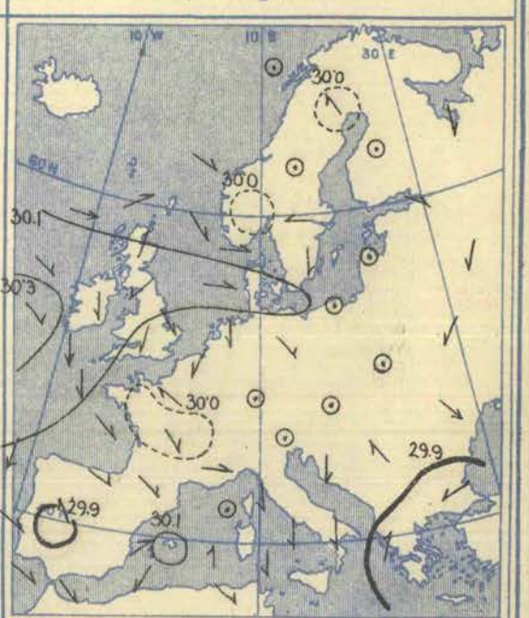
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of the Continent and the south-eastern part of the British Islands, but overcast or very cloudy on our western and northern coasts, rainy at Leith, showery at Pembroke. The unsettled weather in the west spreading eastwards later, thunder and lightning occurring at many of our eastern and southern stations, and considerable rain falling at Portland, Dungeness and Cape Gris Nez, as well as at a few widely separated Continental stations.

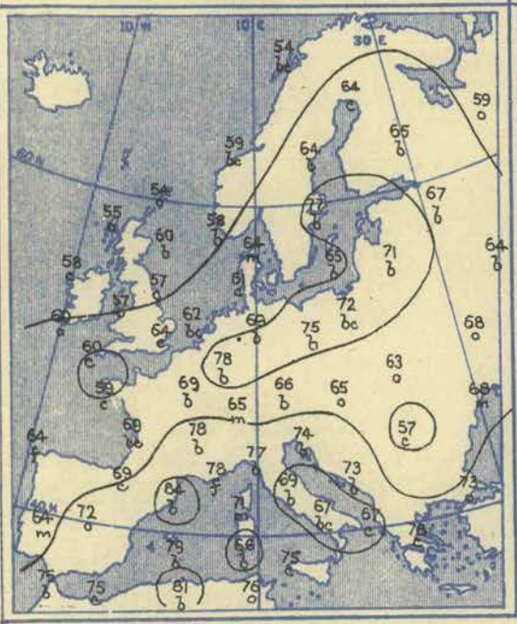
Temperature changed little and irregularly, but fallen generally over the western parts of our Islands. Morning readings ranging from 75° to 70° at many of the Mediterranean stations, more than 70° in some parts of our south-eastern counties and 73° at Stockholm, to between 53° and 54° along our north-western coasts and the west of Norway, 57° at Archangel. Rising a little later to 86° in London, and still later to 91° at Brussels and Perpignan, 90° at Paris, 88° at Lyons and Berlin.

Wind very light generally, the main directions being Northerly to Westerly, but mingled with South-Westerly and variable airs over the east of France; chiefly North-Easterly over the Mediterranean. Very variable breezes over the Continent later, but the general direction (Westerly to Northerly) in our Islands unchanged, though the force increased in the north of Scotland.

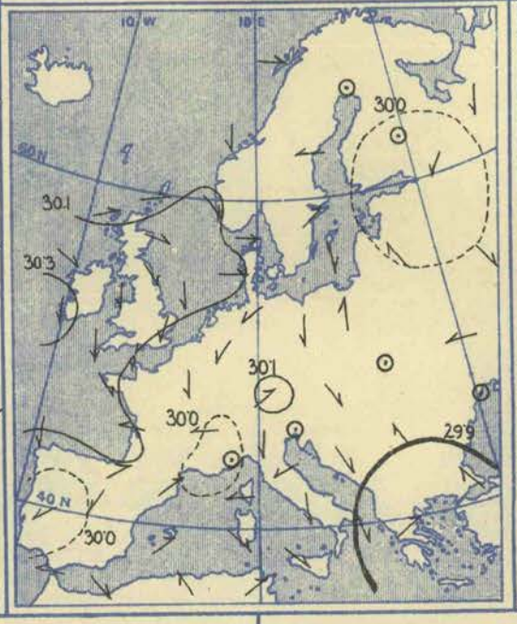
Barometer highest, 30·3 ins. at Valencia and exceeding 30·1 ins. over almost the whole of our Islands and the North Sea. Lowest, 29·9 ins. and less (1) over the north-east of Russia; (2) over Asia Minor and south-eastern Europe. Very little change later over our Islands, but several secondary anticyclones and shallow local depressions appearing over Continental Europe in addition to the main disturbances mentioned above.

Saturday, 13th July.

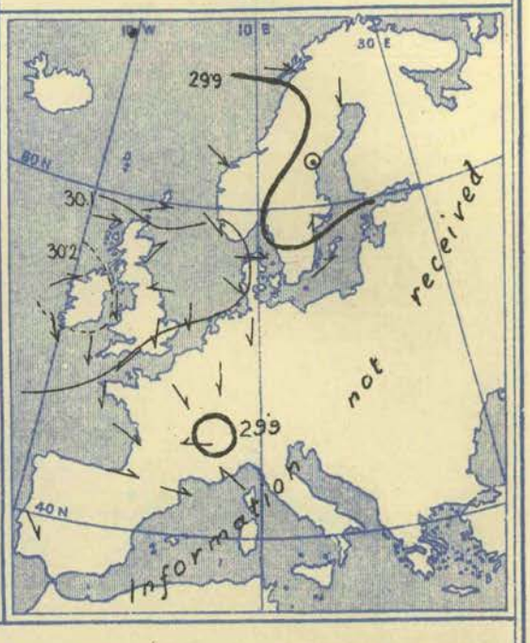
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning more cloudy over the British Islands than of late, and dull over the southern half of Russia; fine and bright over northern and central Europe, disturbed over France; thunder and lightning prevailed at Havre, Cape Gris Nez and Dungeness. Thunderstorms prevalent (very locally) in several parts of England and at Paris; in the latter place 2·6 ins. of rain fell. A few spots fell in London.

Temperature fallen over England and many parts of northern Europe. Morning readings ranging from 84° at Barcelona, 81° at Algiers, and above 70° at most of the Mediterranean stations and those over central Europe, to 60° or more in most other regions, 55° at Blacksod Point, Stornoway, Sumburgh Head, and Bodö. Rising later to 70° in London, but to 86° at Paris, 90° or more at Frankfürt, Brussels and Lyons.

Wind extremely variable and light over Continental Europe as a whole; moderate, Westerly in Scotland, North-Westerly to Northerly over Ireland and England. Inclined to back in the north-west later, becoming North-Easterly over the south of England. Light, North-Easterly to Easterly over France, but a moderate West-North-West gale at Christiansund.

Barometer highest, (1) 30·30 ins. at Valencia and Roche's Point, and exceeding 30·1 ins. over nearly the whole of our Islands and the North Sea; (2) exceeding 30·0 ins. over the Gulf of Finland and the neighbouring parts of Russia. Lowest, 29·94 ins. at Archangel, not much above 29·90 ins. over the southern parts of Russia, the south of France, and the western parts of Spain and Portugal. A new shallow depression appearing over Ireland later.

GENERAL NOTES.

At the commencement of this week pressure ranged from between 30·3 ins. and 30·2 ins. in an anticyclonic system covering Ireland, England and the Netherlands, to 29·68 ins. at Stockholm, 29·9 ins. and less over Finland. The winds reported were light and very variable, but tending to circulate cyclonically round the various low-pressure areas indicated. The high-pressure system developed greatly in size, but decreased in intensity, and by Tuesday morning covered Scandinavia, the North Sea, and east of England, while readings remained low over Russia. Other high-pressure areas of slight intensity advanced over our Islands subsequently, and in the intervening spaces cloud increased, showers fell, and thunderstorms occurred in places. Temperature over England was very high on Thursday, and during a part of Friday, but was falling in the west.

At the close of the week a new anticyclonic system was spreading over us from the westward; temperature had fallen greatly over the United Kingdom, but the general tendency (notwithstanding the local thunderstorm) was to a return of finer weather in the west.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 164.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	40·3	+ 7·7	33	+ 5	BRIGHTON	69·5	+17·5	62	+15
STRATHPEFFER SPA	50·4	+21·3	41	+16	WORTHING	71·9	?	64	?
EDINBURGH	49·3	+16·5	41	+13	BOGNOR	69·4*	?	62*	?
MORPETH	73·0	?	62	?	WATERGATE (Emsworth)	66·6	?	59	?
NEWCASTLE-ON-TYNE	57·4	?	49	?	WESTBOURNE (Emsworth	68·8*	+18·0	61*	+15
OSWALDKIRK (Yorkshire)	56·1	+19·6	48	+16	VENTNOR HOSPITAL	65·8	+17·7	59	+16
YORK	51·5	+12·1	44	+ 9	BOURNEMOUTH	61·3	?	55	?
LOWESTOFT	50·8	?	45	?	SOUTHPORT	77·3	?	67	?
HOLLESLEY BAY	64·2	?	57	?	RHYL	84·2*	?	73*	?
SHEFFIELD	46·7	?	41	?	COLWYN BAY		?		?
WORKSOP	48·6	+11·3	42	+ 9	ABERDOVEY	77·7*	?	68*	?
THURCASTON (Leicestershire)	44·1	+ 3·9	38	+ 3	TENBY				
MARGATE	46·2	+ 1·1	41	0	NEWQUAY				
BROADSTAIRS	54·8	?	49	?	TORQUAY	58·4	+ 8·4	53	+ 7
EASTBOURNE					CAHIR (Duneske)	42·5	?	38	?
					GUERNSEY	62·0*	+ 4·9	56*	+ 3

* The values at Rognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending June 22nd, 1901	Glencarron	62	41	57·1	45·2	50·7	−3·1	61	0	6	1·14	−0·03	—	—	—	—
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	48·5	?	41	?
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	44·1	?	38	?
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	28·7	−25·3	25	−22
,, ,, ,, 29th ,,	Lairg	72	42	65·4	44·3	54·1	+0·8	85	0	2	0·04	−0·54	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 29.] *Third Series.* WEEK ENDING SATURDAY, JULY 20TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 170.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	84	45	67·9	53·5	60·2	5 above	127	+40	0	0	1134	+171	561	− 1
	1. SCOTLAND, EAST	83	42	72·7	54·3	62·9	6 „	146	+43	0	0	1215	+ 36	657	+45
	2. ENGLAND, N.E.	89	44	74·8	54·5	63·9	5 „	153	+38	0	0	1315	+ 65	516	+ 9
	3. ENGLAND, EAST	91	46	77·2	54·6	65·1	4 „	162	+34	0	0	1444	− 44	560	+ 8
	4. MIDLAND COUNTIES	92	41	80·6	54·8	66·8	7 „	174	+50	0	0	1531	+ 23	591	+32
	5. ENGLAND, SOUTH	90	44	76·8	56·5	65·9	5 „	167	+32	0	0	1549	− 79	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	84	41	70·8	53·7	61·7	4 „	138	+33	0	0	1321	+ 48	470	+36
	7. ENGLAND, N.W.	92	43	75·8	55·9	65·1	6 „	162	+45	0	0	1424	+ 53	453	+44
	8. ENGLAND, S.W.	90	40	75·8	55·7	65·0	5 „	161	+38	0	0	1592	+ 63	369	+51
	9. IRELAND, NORTH	81	48	68·4	54·7	61·1	4 „	134	+26	0	0	1323*	− 43	374	+11
	10. IRELAND, SOUTH	82	45	71·7	56·4	63·5	5 „	151	+34	0	0	1542	− 45	325	+63
	—CHANNEL ISLANDS	87	50	73·8	60·0	66·4	5 „	171	+37	0	0	1792	+ 39	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 170.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	8	0 average	121	− 1	19·8	− 4·8	33	+ 5	27	+ 3	844	+114	32	+ 5
	1. SCOTLAND, EAST	3	3	4 less	103	0	13·3	− 2·2	54	+18	46	+15	935	+123	35	+ 4
	2. ENGLAND, N.E.	1	1	5 „	94	− 3	10·5	− 2·0	65	+24	57	+22	988	+178	38	+ 7
	3. ENGLAND, EAST	0	—	6 „	93	− 6	10·2	− 2·3	76	+32	67	+26	1108	+123	41	+ 5
	4. MIDLAND COUNTIES	0	—	6 „	87	− 7	12·4	− 1·6	71	+30	63	+27	959	+134	38	+ 5
	5. ENGLAND, SOUTH	0	—	5 „	80	−12	11·6	− 2·1	81	+31	73	+28	1138*	+138	43	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	10	1 more	102	−10	21·6	− 4·2	44	+ 5	39	+ 6	1013	+156	38	+ 5
	7. ENGLAND, N.W.	2	1	6 less	95	− 6	12·1	− 4·3	66	+21	58	+19	1101	+212	41	+ 8
	8. ENGLAND, S.W.	0	—	7 „	86	−19	17·1	− 2·7	65	+17	59	+16	1125*	+107	44	+ 5
	9. IRELAND, NORTH	4	4	4 „	117	− 4	17·1	− 0·7	28	− 3	24	− 3	893	+ 93	34	+ 4
	10. IRELAND, SOUTH	2	3	5 „	96	−15	17·3	− 3·3	39	+ 6	35	+ 5	975	+ 80	37	+ 3
	— CHANNEL ISLANDS	1	less than ½	5 „	106	0	15·5	− 0·1	76	+27	70	+24	1184	+ 8	45	0

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather continued fine and very warm over the greater part of the Kingdom, but was rather unsettled in the extreme north-west and north with occasional thunderstorms. Towards the close of the period rather sharp thunderstorms were experienced in all the more northern districts.

Temperature was again above the mean, the excess ranging from 4° in England E., Scotland W., and Ireland N. to 6° in Scotland E. and England N.W., and to 7° in the Midland Counties. The highest of the maxima were recorded on the 18th, 19th, or 20th. In England N.W. and the Midland Counties (at Newton Reigny, Rawtry, and Colly Weston) the thermometer rose to 92° ; in England E. (at Cambridge) to 91°, and in England S. and S.W. to 90°. Elsewhere the highest readings varied from 89° in England N.E. to 81° in Ireland N. The lowest of the minima, which were registered during the earlier part of the week, ranged from 40° in England S.W. and 41° in the Midland Counties and Scotland W. to 48° in Ireland N., and to 50° in the Channel Islands. During the latter half of the period the minima were unusually high, the thermometer at some stations not falling to 60°.

Rainfall was a little more than the mean in Scotland W. and just equal to it in Scotland N., elsewhere it was much less. Over the greater part of England the weather was quite rainless.

Bright Sunshine exceeded the mean in almost all districts. The percentage of the possible duration ranged from 73 in England S., 70 in the Channel Islands, and 67 in England E., to between 46 and 27 in Scotland, and 35 and 24 in Ireland.

Barometer and Wind.—The distribution of pressure was mainly anticyclonic over all the more southern parts of our Islands, but the extreme N. and N.W. was occasionally affected by small shallow depressions from the Atlantic. The winds were light or moderate in force, and mostly Southerly in direction, but towards the end of the week, when the anticyclone moved slowly north-eastwards to Scandinavia, the wind over England backed to the South-Eastward or Eastward.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°			Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	69	49	62·1	51·4	56·4	+ 3·8	101	0	2	0·05	− 0·48	*	*	*	*
	Stornoway	70	50	64·4	52·3	57·9	+ 3·4	111	0	5	0·50	− 0·17	32·9	+1· 7	27	+1
	Wick	80	45	68·7	52·7	60·1	+ 4·9	127	0	2	0·14	− 0·43	*	*	*	*
	Lairg Ⓢ	84	46	73·5	53·0	62·5	+ 7·9	144	0	3	0·65	− 0·03	*	*	*	*
	Glencarron Ⓢ	76	48	68·2	53·7	60·3	+ 5·6	128	0	6	2·05	+ 0·67	*	*	*	*
	Fort Augustus Ⓢ	78	49	70·0	55·9	62·5	+ 6·0	144	0	4	0·75	+ 0·04	33·7	+12·8	29	+11
	Fort William Ⓢ	78	51	68·2	55·6	61·5	+ 4·9	137	0	6	1·70	+ 0·52	25·7	− 2·3	22	− 2
1. SCOTLAND, E.	Nairn	83	46	72·9	54·7	63·2	+ 6·1	148	0	4	0·17	− 0·43	*	*	*	*
	Aberdeen	79	48	69·7	53·9	61·3	+ 4·2	135	0	2	0·61	− 0·04	56·9	+20·0	48	+16
	Braemar Ⓢ	77	42	70·7	52·7	61·2	+ 6·7	134	0	2	0·06	− 0·58	*	*	*	*
	Ochtertyre Ⓢ	81	45	74·6	55·9	64·6	+ 6·4	158	0	3	0·48	− 0·22	*	*	*	*
	Leith	83	51	73·7	56·3	64·4	+ 5·8	157	0	2	0·18	− 0·43	*	*	*	*
	Marchmont Ⓢ	82	45	74·4	52·4	62·6	+ 5·9	144	0	2	0·36	− 0·41	61·8	+23·6	53	+20
2. ENGLAND, N.E.	Alnwick Castle	80	44	73·8	53·1	62·7	+ 5·1	145	0	2	0·31	− 0·33	*	*	*	*
	Durham	84	44	77·5	54·0	64·9	+ 5·9	160	0	1	0·01	− 0·63	70·2	+32·7	61	+28
	Shields	78	50	72·6	55·4	63·4	+ 5·7	150	0	3	0·11	− 0·47	*	*	*	*
	Scarborough Ⓜ	81	43	72·2	51·9	61·3	+ 2·1	135	0	0	—	− 0·60	75·5	?	67	?
	Spurn Head	72	53	70·1	57·7	63·5	+ 3·6	151	0	0	—	− 0·37	*	*	*	*
	Fulbeck (Lincolnshire)	89	46	82·4	54·6	67·5	+ 7·1	179	0	0	—	− 0·52	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	90	46	82·8	53·0	66·9	+ 6·1	174	0	0	—	− 0·64	74·3	+34·7	66	+26
	Yarmouth	75	55	69·6	58·1	63·5	+ 3·1	151	0	0	—	− 0·60	*	*	*	*
	Geldeston	80	52	75·6	53·6	63·8	+ 3·3	153	0	0	—	− 0·56	73·7	+26·2	66	+23
	Cambridge	91	49	83·6	53·0	67·2	+ 5·6	176	0	0	—	− 0·54	79·7	+33·9	71	+30
	Felixstowe	75	53	72·4	57·0	64·2	+ 3·0	155	0	0	—	?	71·7†	?†	64†	?†
	Rothamsted	86	49	79·3	52·8	65·1	+ 4·7	162	0	0	—	− 0·58	78·5	+30·8	70	+27
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	92	41	83·7	53·4	67·5	+ 7·3	179	0	0	—	− 0·59	*	*	*	*
	Loughborough	90	44	83·0	54·9	68·0	+ 6·6	182	0	0	—	− 0·50	*	*	*	*
	Colly Weston (Stamford)	92	50	84·0	55·1	68·5	+ 7·9	186	0	0	—	?	*	*	*	*
	Cheadle Ⓜ	86	47	78·4	56·6	66·7	+ 8·8	173	0	0	—	− 0·68	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	88	51	79·3	57·5	67·6	+ 7·8	179	0	0	—	− 0·60	66·0	?	59	?
	Churchstoke Ⓜ	87	42	77·6	52·7	64·3	+ 5·5	156	0	1	0·03	− 0·52	69·0	+26·9	61	+24
	Hereford (Belmont) Ⓜ	85	44	78·6	54·0	65·4	+ 4·8	164	0	0	—	− 0·52	*	*	*	*
	Cirencester	87	46	78·9	53·1	65·1	+ 5·5	162	0	0	—	− 0·63	73·7	+29·1	66	+26
	Oxford	89	49	81·6	55·7	67·7	+ 6·5	180	0	0	—	− 0·55	76·9	+31·6	69	+28
5. ENGLAND, S.	London	90	52	82·6	56·3	68·5	+ 5·8	186	0	0	—	− 0·51	70·8†	+28·7†	63†	+25†
	Swarraton (Alresford) Ⓜ	86	44	79·1	51·0	64·1	+ 4·7	155	0	0	—	− 0·58	*	*	*	*
	Dungeness	75	53	71·1	57·1	63·6	+ 2·3	151	0	0	—	− 0·37	73·0	?	66	?
	Hastings (St. Leonards)	82	56	75·3	58·7	66·4	+ 5·3	171	0	0	—	− 0·50	83·4	+39·9	76	+28
	Southampton	90	52	81·1	56·7	68·1	+ 5·8	183	0	0	—	− 0·58	84·7	+35·2	77	+32
	Portland Bill	75	52	69·3	57·9	63·2	+ 3·4	148	0	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	89	52	78·9	57·7	67·6	+ 8·4	179	0	0	—	− 0·65	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	76	50	69·0	54·7	61·4	+ 4·2	136	0	7	1·71	+ 0·54	*	*	*	*
	Glasgow	76	50	72·2	56·9	64·0	+ 6·5	154	0	2	1·32	+ 0·56	36·9	+ 4·7	32	+ 5
	Glenlee Ⓢ	84	41	73·4	50·3	61·1	+ 3·6	134	0	3	0·67	− 0·24	*	*	*	*
	Douglas (Isle of Man)	77	47	68·6	52·7	60·1	+ 2·8	127	0	3	0·18	− 0·50	51·1	+ 5·4	45	+ 6
7. ENGLAND, N.W.	Newton Reigny	92	43	78·6	52·3	64·5	+ 6·9	158	0	1	0·46	?	65·6	?	57	?
	Stonyhurst	85	48	75·5	56·3	65·2	+ 6·8	162	0	1	0·07	− 0·87	69·2	+29·4	61	+26
	Blackpool Ⓜ	88	49	75·1	55·7	64·7	+ 5·0	159	0	3	0·17	− 0·51	58·7	+17·7	52	+16
	Manchester (Prestwich)	87	46	79·1	55·6	66·5	+ 7·8	172	0	1	0·08	− 0·77	64·3	?	56	?
	Liverpool Obsy. (Bidston)	88	52	75·9	58·1	66·4	+ 6·5	171	0	2	0·04	− 0·58	67·5	?	60	?
	Chester (Hawarden Bridge)	88	46	77·9	55·7	66·0	+ 6·0	168	0	1	0·01	?	*	*	*	*
	Llandudno Ⓜ	90	52	74·0	57·8	65·3	+ 5·2	163	0	3	0·10	− 0·46	58·9	+18·2	52	+16
	Holyhead	85	53	70·4	55·7	62·5	+ 3·8	144	0	2	0·13	− 0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	90	40	81·1	53·6	66·4	+ 7·2	171	0	0	—	− 0·88	*	*	*	*
	Pembroke	76	55	68·4	58·0	62·8	+ 4·3	146	0	1	0·05	− 0·50	51·4	+ 5·2	46	+ 5
	Clifton	89	54	80·2	59·1	68·9	+ 8·0	188	0	0	—	− 0·68	*	*	*	*
	Bath	88	49	79·3	54·9	66·3	+ 4·9	170	0	0	—	?	70·5	?	64	?
	Arlington (N. Devon)	82	43	74·6	53·7	63·4	+ 4·7	150	0	0	—	− 0·99	*	*	*	*
	Cullompton Ⓜ	87	43	79·3	52·0	64·7	+ 3·6	159	0	0	—	− 0·64	65·6	+23·4	60	+22
	Falmouth	77	52	71·2	58·3	64·3	+ 4·0	156	0	1	0·01	− 0·67	70·4	+19·4	65	+18
	Plymouth	82	50	72·1	55·6	63·3	+ 2·1	149	0	0	—	− 0·60	73·2	+26·2	67	+24
9. IRELAND, N.	Malin Head	74	51	68·3	54·7	61·0	+ 3·9	133	0	4	0·27	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	78	48	70·6	54·4	61·9	+ 5·1	139	0	5	0·55	− 0·20	*	*	*	*
	Blacksod Point	68	54	64·3	56·9	60·3	+ 2·5	128	0	5	0·58	?	*	*	*	*
	Markree Castle	76	49	69·6	54.6	61·6	+ 4·6	137	0	4	0·62	− 0·20	27·7	− 1·3	24	− 1
	Armagh	81	49	72·1	55·1	63·0	+ 5·1	147	0	3	0·11	− 0·59	27·5	− 5·1	24	− 4
	Donaghadee	69	50	65·7	52·6	58·7	+ 1·2	117	0	2	0·03	− 0·62	*	*	*	*
10. IRELAND, S	Dublin	82	54	75·4	58·7	66·5	+ 6·3	172	0	3	0·06	− 0·52	52·9	+15·4	47	+14
	Parsonstown	82	48	73·9	56·0	64·3	+ 5·9	156	0	3	0·21	− 0·46	39·1	+ 7·5	35	+ 7
	Kilkenny	79	45	73·4	54·9	63·5	+ 4·4	151	0	2	0·14	− 0·44	*	*	*	*
	Roche's Point	72	52	67·4	56·4	61·5	+ 2·0	137	0	1	0·20	− 0·48	*	*	*	*
	Valencia	73	54	67·4	57·1	61·9	+ 3·2	139	0	4	0·86	− 0·04	30·3	− 4·4	27	− 4
	Killarney	78	53	69·4	56·9	62·7	+ 4·2	145	0	1	0·13	− 0·67	*	*	*	*
	Foynes	81	46	74·7	54·9	64·1	+ 6·2	155	0	2	0·14	− 0·56	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	75	57	70·0	59·9	64·6	+ 4·3	158	0	1	0·01	− 0·51	63·7	?	58	?
	Jersey	87	50	77·6	60·1	68·2	+ 5·7	183	0	0	—	− 0·52	80·4	+25·4	74	+ 23

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

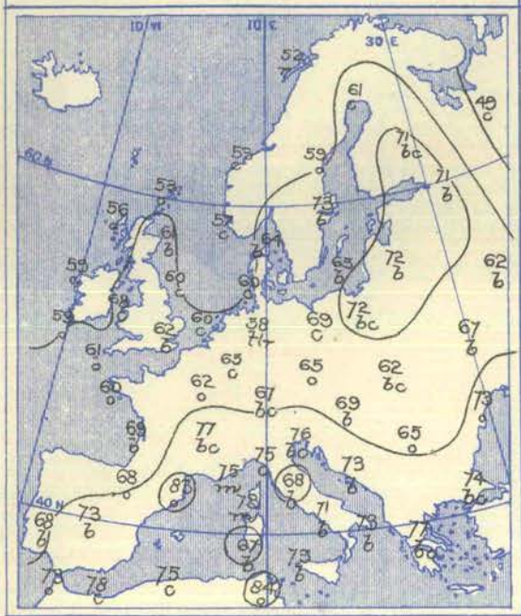
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

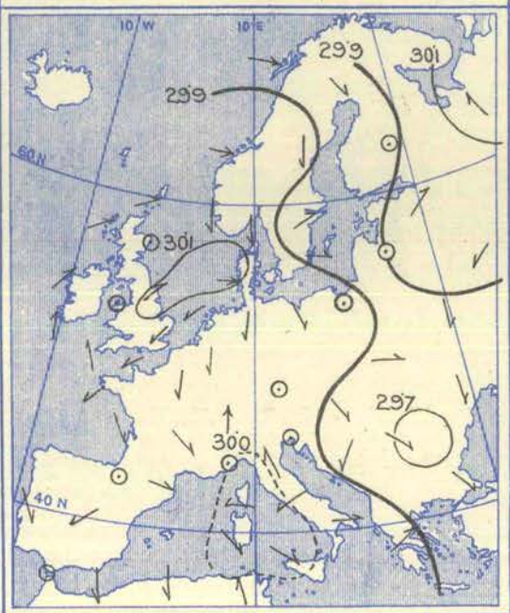
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 14th July.

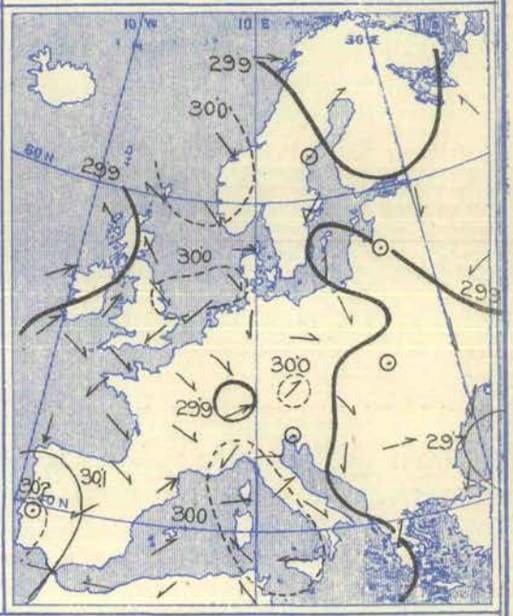
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m



Weather in morning cloudy or dull on our western and north-western coasts, and also in Norway, with rain at Bodö, fair though rather cloudy in most other places. Rain later at most of the northern and western stations, and also at several Continental stations, as much as 1·14 ins. at Fanö, 0·87 in. at Nice, 1·06 ins. at Kiev. Thunderstorms occurred in several places.

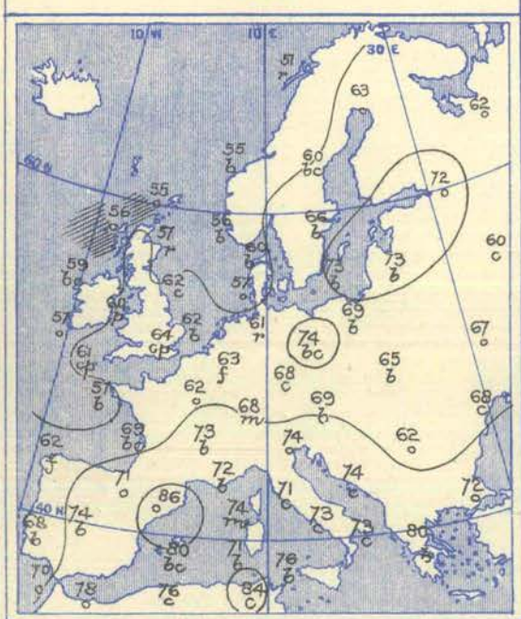
Temperature changed little and irregularly, but risen somewhat over France. Morning readings highest, (1) 84° at La Calle, 83° at Barcelona, above 70° over southern Europe generally; (2) 75° at Memel, 73° at Stockholm, and above 70° over the Baltic Provinces. Lowest, 49° at Archangel, 52° at Bodö, and 53° at Christiansund and Stornoway. Rising during day to 72° in many parts of England, exceeding 80° over France and Germany, and reaching 90° at Lyons, Malta, 95° at La Calle, and 99° at Aumale.

Wind very light over our Islands and France, mainly North-Easterly to Northerly at the southern stations, but Southerly to South-Westerly in the west. Light and very variable over the Continent generally. No change of importance later.

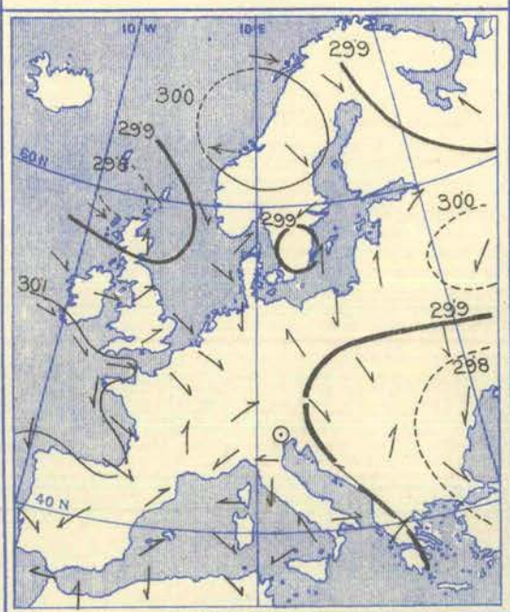
Barometer highest, 30·0 ins. and upwards in an anticyclone covering our Islands, the eastern shores of the North Sea, and the greater part of France, and 30·1 ins. and more over northern Russia. Lowest, 29·7 ins. and less over Bulgaria, and 30·0 ins. and less in a shallow system over the Mediterranean. Depressions spreading in from the Atlantic later, that over Bulgaria travelling eastwards to the Black Sea.

Monday, 15th July.

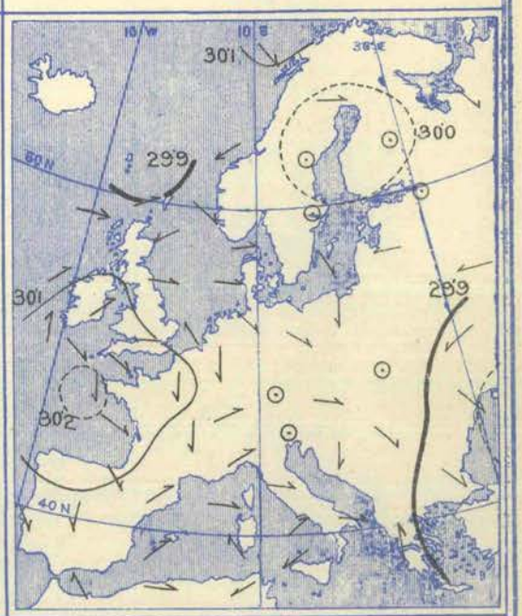
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull at most of the Irish and Scotch stations, and also over northern Europe, with rain at Aberdeen and Bodö, fair or fine elsewhere. Rain later at several of our northern stations, 0·57 in. at Aberdeen where a thunderstorm prevailed, and also over some parts of Germany.

Temperature changed rather irregularly, but inclined to rise in most places. Morning readings highest, 86° at Barcelona, 84° at La Calle, 80° at Palma and Patras, above 70° over the Mediterranean generally, and also at Wisby and over the Baltic Provinces. Lowest, 57° at Bodö 55° at Christiansund and Sumburgh Head, and 56° at Malin Head, Stornoway and Skudesnaes. Rising later to 77° in London, 78° at Oxford, 79° at Rochefort and Biarritz, 88° at several of the Italian stations, 89° at Rochefort and Biarritz, 91° at Nice, reaching 93° at Tunis and 99° at Aumale

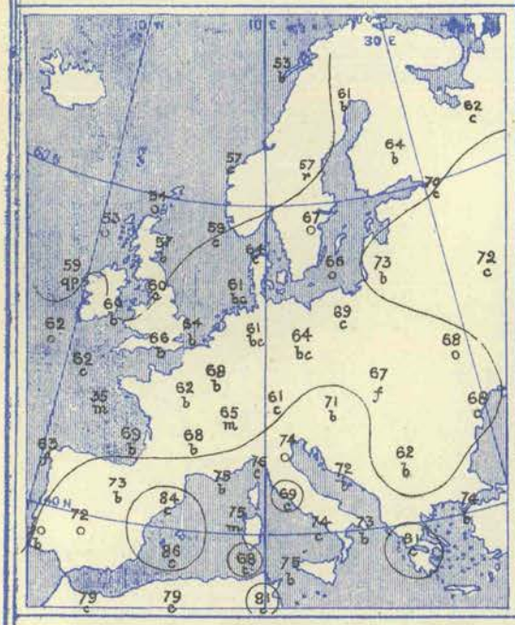
Wind Westerly to Northerly in the west and south, and light in force generally, South-Easterly to Southerly in the north, but blowing strongly from Westward—North-Westward in the Hebrides, variable at most of the Continental stations, but Northerly in the south of Russia. Backing to the Southward later in Ireland, no great change elsewhere.

Barometer 30·1 ins. and more off our south-west coasts and the Bay of Biscay, and 30·0 ins. and more over the northern part of Scandinavia, and also over central Russia. Lowest, 29·8 ins. and less off the north-west coast of Scotland, and also over the Black Sea, and 29·9 ins. and less in a very shallow system lying over Gothland. Depression in north-west moving northwards later, no material change elsewhere.

Tuesday, 16th July.

Temperature and Weather.

8 a.m.

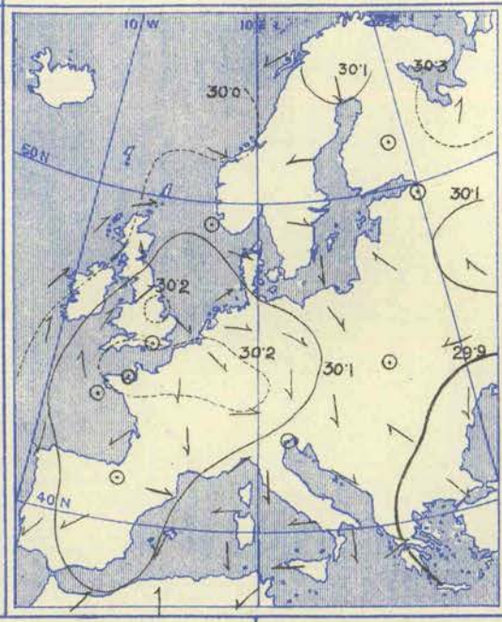


Weather in morning dull and rather showery on our extreme western coasts, and also in Sweden, with rain at Hernösand, fine in most other places. Rain falling later in the north-west and west, heavily at Valencia, some rain also reported in Sweden, and a heavy fall 0·71 ins. locally at Aumale.

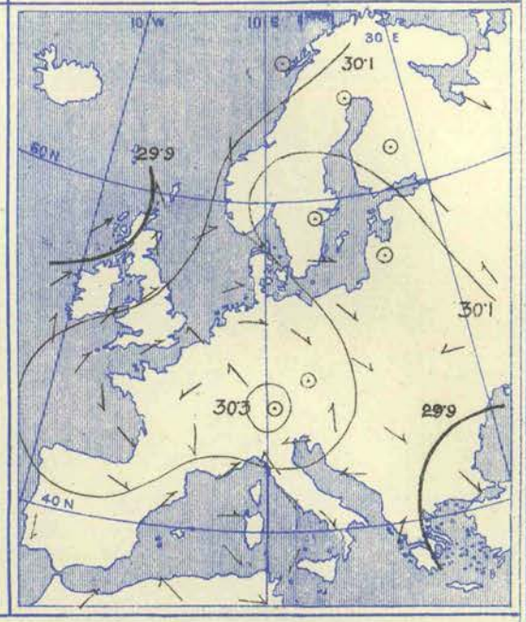
Temperature risen a little in most places. Mornings readings highest, 86° at Palma, 84° at Barcelona, 81° at Sfax and Athens, and 79° at Nemours and Oran, above 70° over southern Europe generally, and also over central and western Russia. Lowest, 53° at Bodö and Stornoway, 54° at Sumburgh Head and 57° at Hernösand, Christiansund, Wick and Aberdeen. Rising during day to 77° in London, 78° at Oxford, 86° at Berlin, 89° at Lyons, 90° at Perpignan, and 91° at Toulouse and Palermo, reaching 95° at Tunis and 97° at Aumale.

Barometer and Wind.

8 a.m.



6 p.m.



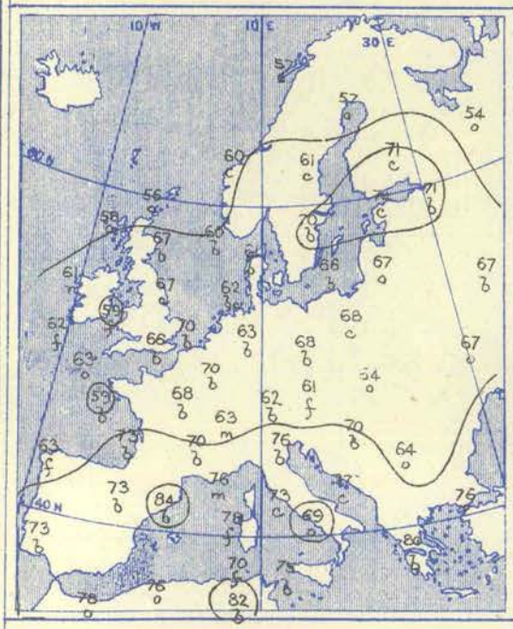
Wind light and anticyclonic in most places, but fresh from the Southward in the west of Ireland and Scotland, and a strong Westerly breeze at Christiansund. Southerly winds in the west, spreading over our Islands later, and increasing to the force of a moderate gale at Stornoway.

Barometer highest, 30·2 ins. and more in an anticyclone lying over the south of England, western Germany and the north of France, and 30·1 ins. and more in two small high pressure areas lying over Lapland and central Russia respectively. Lowest, 29·9 ins. and less over south-eastern Europe and the Black Sea, and 30·0 ins. and less off the west of Norway and our north-western and western coasts. No important change later, but anticyclone increasing in size.

Wednesday, 17th July.

Temperature and Weather.

8 a.m.

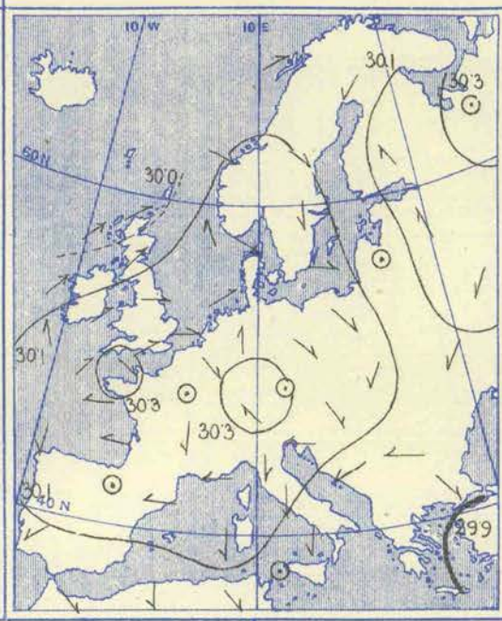


Weather in morning dull in Ireland, and the west of Scotland, with rain at Blacksod Point and Donaghadee, and fog at many western stations. Fine and bright elsewhere, Remaining fine and dry over north-western Europe generally, the only rain reported being over Lapland where the falls was slight.

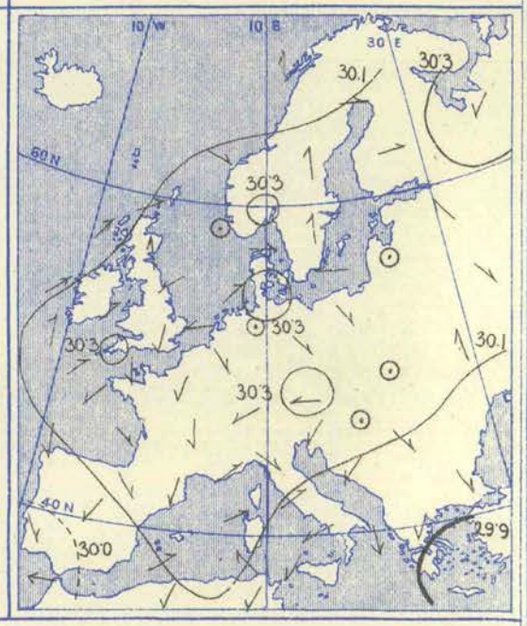
Temperature risen a little except over central Europe. Morning readings highest, 84° at Barcelona, 82° at La Calle and Sfax, 80° at Athens, and 78° at Sanguinaires, above 70° at the Mediterranean stations generally and also the Baltic Provinces. Lowest, 54° at Archangel, 56° at Sumburgh Head, 57° at Haparanda and Bodö, and 58° at Stornoway. Rising during day to 84° in London, 83° at Loughborough, 81° in Oxford, and touching 79° in many parts of Ireland and Scotland, reaching 90° at Nice, 91° at Perpignan and at many of the Italian and Algerian stations, and touching 100° at Rochefort.

Barometer and Wind.

8 a.m.



6 p.m.



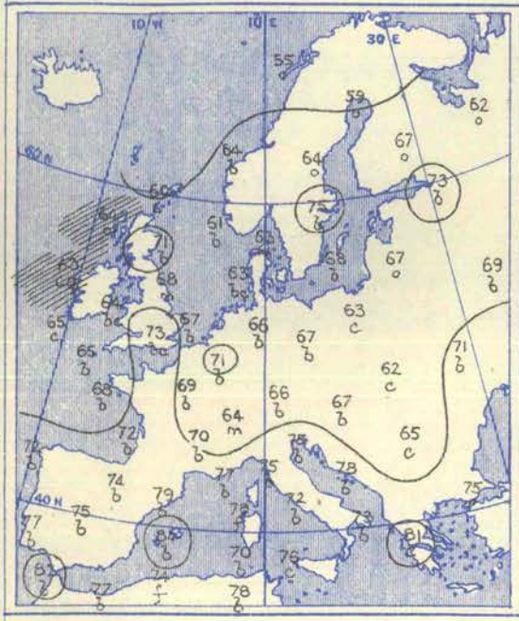
Wind Southerly or South-Westerly over nearly the whole of our Islands, fresh in force on our extreme north and north-west coasts. Light from the Eastward in France and Germany. Southerly to Westerly over Scandinavia, chiefly from North or North-East over southern Europe, but variable elsewhere. No material change later,

Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone lying over England and the eastern countries of Europe, and also in another over central and northern Russia. Lowest, 29·9 ins. and less over Asia Minor, and 30·0 ins. and less off our own extreme north-western coasts. No important change during day.

Thursday, 18th July.

Temperature and Weather.

8 a.m.

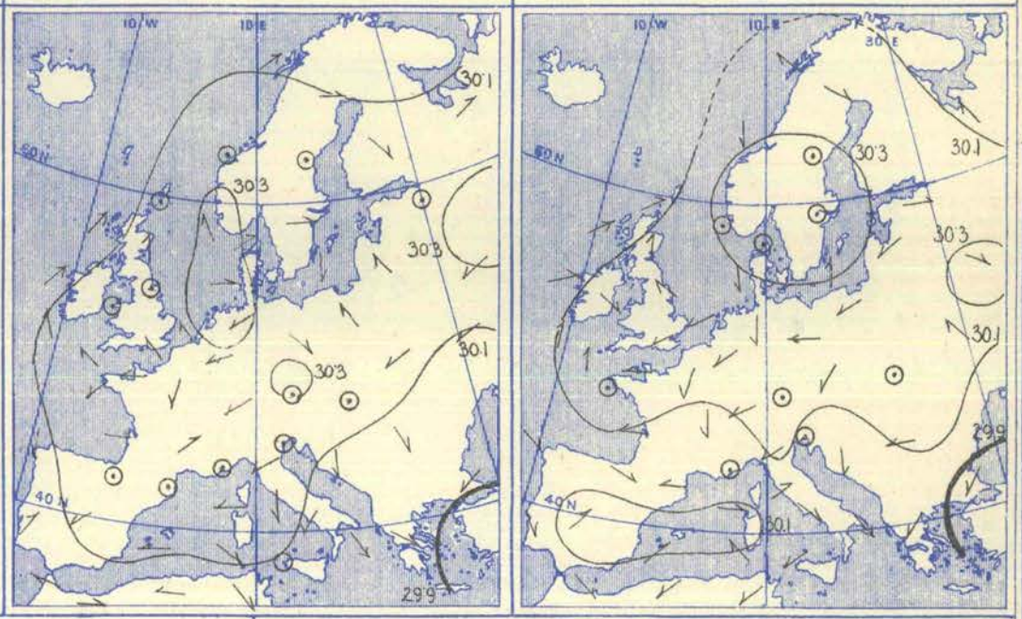


Weather in morning dull at Stornoway and also over the north of Scandinavia, very fine elsewhere, but misty in a few places. Rain falling later at some of our northern and north-western stations, and thunderstorms occurring during the night at Aberdeen and Shields, rain also fell locally at Sanguinaires and Barcelona, but remaining very dry over western Europe generally.

Temperature risen in most places, but fallen a little at some of the southern European stations. Highest, (1) 84° at Palma, 82° at San Fernando, 81° at Athens, and 79° at Barcelona and Sfax; (2) 75° at Stockholm, and 73° at St. Petersburg; (3) 75° at Nairn, Leith, and Oxford, and 73° in London. Lowest, 55° at Bodö, 59° at Uleaborg, 60° at Sumburgh Head, and 62° at Archangel at Haparanda. Rising during day to 90° at Loughborough and Hellington, 89° at Newton Reigny, 88° at Oxford, and in London, exceeding 80° in most parts of Scotland and England, reaching 93° at Brest, 95° at Lorient and Lisbon, 97° at Madrid, and touching 104° at Rochefort.

Barometer and Wind.

8 a.m. | 6 p.m.



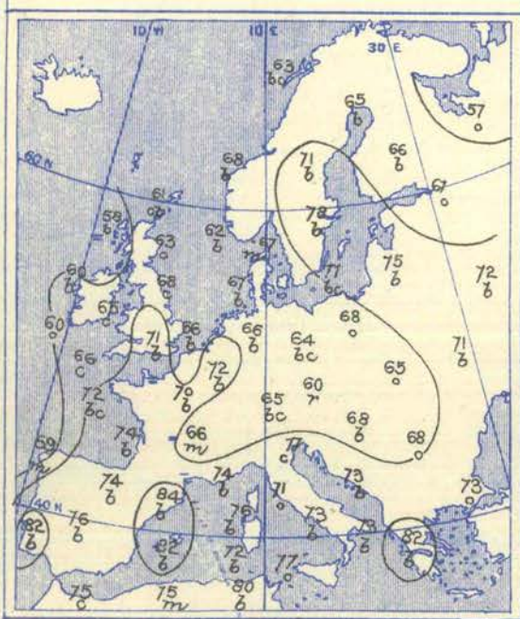
Wind Southerly over the whole of Ireland and Scotland, fresh in many places, chiefly Easterly over England and the central and southern parts of the Continent, variable in Scandinavia. Veering to the West in the north of Ireland later; no important change elsewhere.

Barometer highest, 30·3 ins. and more over the North Sea, Denmark, and the south of Norway and also in another system over central Russia. Lowest, 29·9 ins. and less over Asia Minor, and 30·0 ins. and less off our extreme north-western and western coasts. Little change later.

Friday, 19th July.

Temperature and Weather.

8 a.m.

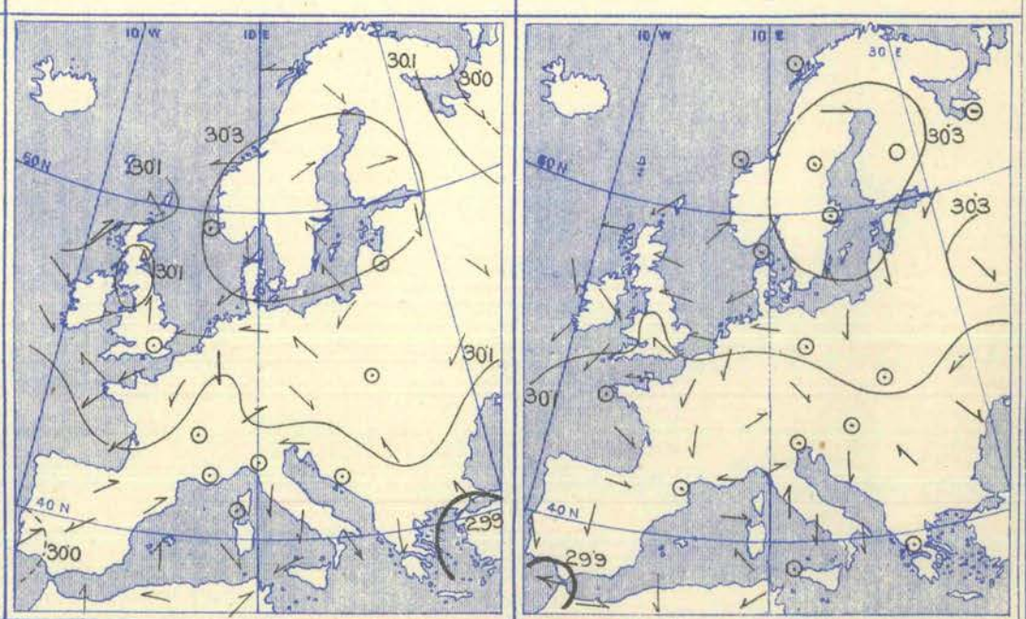


Weather in morning cloudy or dull on our northern and western coasts, with a thunderstorm at Malin Head, thunder also reported from Wick and Sumburgh Head, and a solar halo at Jersey. Rain later in Scotland and the north-east of England, heavily at Shields, where a thunderstorm occurred, distant thunder also heard at Aberdeen. Rain also fell in some parts of Austria, heavily at Prague.

Temperature fallen a little over our Islands, risen somewhat on the Continent. Morning readings highest, 84° at Barcelona, 82° at Palma, Patras and Lisbon, 78° at Leghorn and Stockholm, above 70° over the south of Sweden, France, and also over the inland districts of England. Lowest, 56° at Donaghadee, 57° at Malin Head and Archangel, 58° at Stornoway, and 60° at Blacksod Point and Valencia. Rising during day to 90° at Loughborough, and in London, 89° at Oxford, and 85° at Jersey, exceeding 80° in the south of Sweden, reaching 90° at several southern and western French stations, and in Italy, and touching 97° at Lisbon, and 102° at Madrid.

Barometer and Wind.

8 a.m. | 6 p.m.

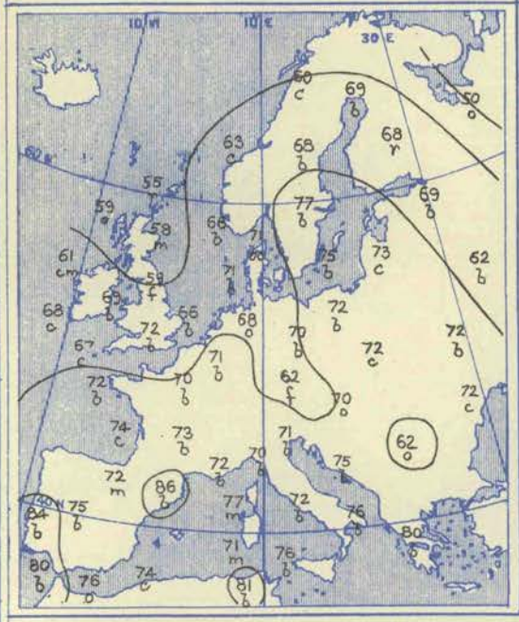


Wind very light and variable over the northern and western parts of our Islands, and also over Scandinavia, but chiefly Easterly over England, and at the Continental stations. Wind veering Northwards later in Ireland, and the west of England, and Easterly wind spreading Northwards to Scotland.

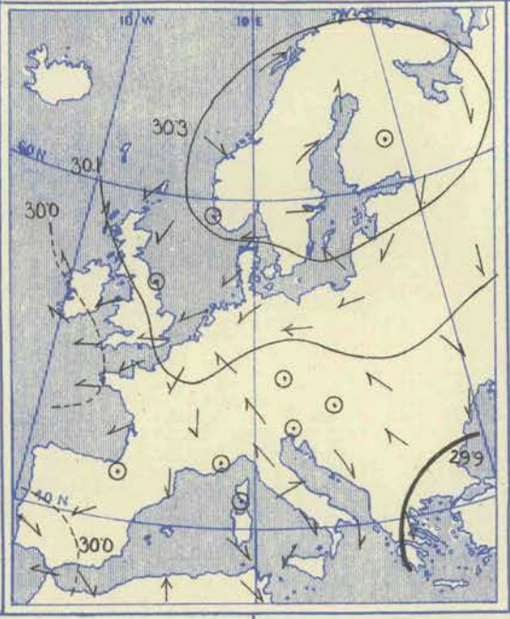
Barometer highest, 30·3 ins. and more in a large anticyclone lying over Scandinavia, Denmark and the Baltic Provinces. Lowest, 29·9 ins. and less over Asia Minor, 30·1 ins. and less in two shallow areas of low pressure over Scotland and the north-western parts of England. No material change later, but another high pressure system appearing over central Russia.

Saturday, 20th July.

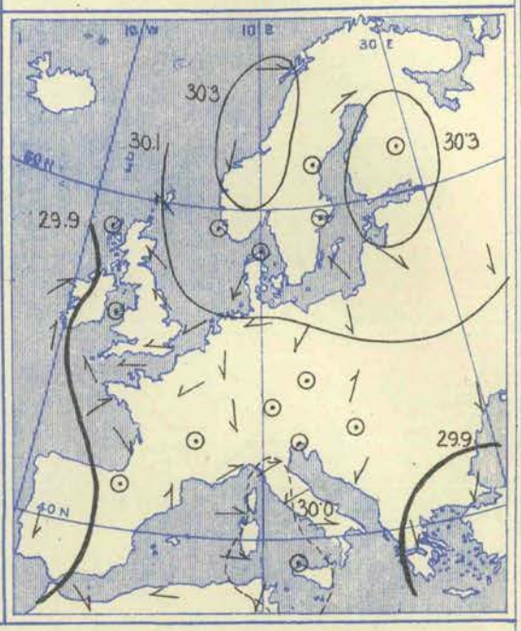
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in Scotland and in the west of Ireland, with rain in the Shetlands and fog or mist at several Scotch Stations and the north-east of England, fine over England and also on the Continent, with cloudless skies in many places. Rain later in Ireland and Scotland and also over Germany and northern Italy. Thunderstorm occurring at Malin Head and lightning at Aberdeen and Donaghadee.

Temperature in morning highest, 86° at Barcelona, 84° at Lisbon, 80° at San Fernando, Athens and Patras; exceeding 70° over the greater part of the Continent, and also over the inland districts of England. Lowest, 50° at Archangel, 55° at Sumburgh Head and Wick, 57° at Leith, and 58° at Aberdeen. Rising during day to 88° at Liverpool and Loughborough, 87° at Oxford, Jersey and in London, and to 85° at Holyhead; exceeding 70° in most parts of our Islands. Rising still higher at Continental Stations, maxima exceeding 90° recorded over the west and south of France, and some parts of Algeria, temperature even rising to above 80° in the south of Sweden.

Wind South-Easterly to Easterly over the whole of our Islands and France, light to moderate in force, chiefly Easterly and North-Easterly and light in force on the Continent. Little change over our Islands later, but becoming more variable at the Continental stations.

Barometer highest, 30·3 ins. and more over Scandinavia and north-western Russia. Lowest, 29·9 ins. and less over Greece and Asia Minor, and 30·0 ins. and less in a shallow area lying off our western and south-western coasts. Barometer falling decidedly in the west later and depression spreading slowly from the westward over our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the highest pressures were found in a large anticyclone covering our Islands, France and the North Sea, and the lowest pressures over south-eastern Europe, and also over the Atlantic. The winds were chiefly Easterly over England, but Southerly in Ireland and Scotland, and blew freshly or strongly at times. As the week advanced a shallow depression appeared off our north-west coasts, bringing some rain to Scotland and the north-west of Ireland. This disturbance passed away to the north-westward, and another high pressure appeared over western Europe. This gradually increased in size, and spread eastwards until it reached Scandinavia and north-western Russia. During this period the wind was chiefly Southerly in the west and north, but variable or light from the Eastward over England and on the Continent, with very fine weather and exceptionally high temperatures at all the Continental stations and over our inland districts. At the close of the week the anticyclone travelled eastwards slowly to Scandinavia, the barometer commenced to fall decidedly on our western coasts, and a shallow depression advanced from the Atlantic, bringing rain and thunderstorms to the northern parts of the kingdom, and some decrease in temperature over our Islands generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	40·0	+ 8·4	33	+ 7	WORTHING	82·4	?	75	?
STRATHPEFFER SPA	30·5	+ 2·1	25	+ 1	BOGNOR	84·8*	?	77*	?
EDINBURGH	44·4	+11·9	38	+10	WATERGATE (Emsworth)	79·9	?	73	?
MORPETH	70·8	?	62	?	WESTBOURNE (Emsworth	84·8*	+34·3	77*	+31
NEWCASTLE-ON-TYNE	51·8	?	45	?	VENTNOR HOSPITAL	83·5	+35·1	76	+32
OSWALDKIRK (Yorkshire)	54·2	+17·9	48	+16	BOURNEMOUTH	88·4	?	80	?
YORK					SOUTHPORT	71·4	?	63	?
LOWESTOFT	74·4	?	66		RHYL	*	?	*	?
HOLLESLEY BAY	77·3	?	69	?	COLWYN BAY		?		?
SHEFFIELD	70·4	?	62	?	ABERDOVEY	68·2*	?	60*	?
WORKSOP	66·0	+29·0	58	+25	TENBY	55·4	+ 8·9	49	+ 7
THURCASTON (Leicestershire)	72·5	+32·5	64	+28	NEWQUAY	60·1	+11·9	55	+11
MARGATE	72·3	+26·9	66	+25	TORQUAY	74·8	+25·5	69	+24
BROADSTAIRS		?		?	CAHIR (Duneske)	35·2*	?	31*	?
EASTBOURNE	83·7	+31·2	76	+28	GUERNSEY	84·7*	+27·7	78*	+25
BRIGHTON	79·8	+27·8	73	+26					

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 30.] *Third Series.* WEEK ENDING SATURDAY, JULY 27TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 176.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	78	37	64·8	53.9	59·0	4 above	119	+31	0	0	1253	+202	561	- 1
	1. SCOTLAND, EAST	79	50	66·8	55·4	60·7	4 ,,	131	+28	0	0	1346	+ 64	657	+45
	2. ENGLAND, N.E.	85	49	67·2	56·2	61·3	2 ,,	135	+20	0	0	1450	+ 85	516	+ 9
	3. ENGLAND, EAST	89	50	69·7	55·8	62·3	1 ,,	142	+14	0	0	1586	- 30	560	+ 8
	4. MIDLAND COUNTIES	86	47	68·6	55·8	61·8	2 ,,	139	+15	0	0	1670	+ 38	591	+32
	5. ENGLAND, SOUTH	88	52	68·4	56·4	61·9	1 ,,	139	+ 3	0	0	1688	- 76	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	50	67·8	55·4	61·1	4 ,,	134	+28	0	0	1455	+ 76	470	+36
	7. ENGLAND, N.W.	80	50	67·1	56·3	61·4	2 ,,	136	+19	0	0	1560	+ 72	453	+44
	8. ENGLAND, S.W.	81	48	65·6	56·1	60·5	0 (average)	130	+ 7	0	0	1722	+ 70	369	+51
	9. IRELAND, NORTH	73	45	61·6	53·6	57·3	0 ,,	107	- 1	0	0	1430	- 44	374	+11
	10. IRELAND, SOUTH	79	50	64·4	54·6	59·0	0 ,,	119	+ 2	0	0	1661	- 43	325	+63
	—CHANNEL ISLANDS	69	53	65·1	57·2	60·9	1 below	132	- 4	0	0	1924	+ 35	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 176.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	12	4 more	126	0	21·0	- 4·4	17	-10	15	- 9	861	+104	31	+ 4
	1. SCOTLAND, EAST	6	13	6 ,,	109	+ 2	14·6	- 1·6	17	-19	15	-16	952	+105	34	+ 3
	2. ENGLAND, N.E.	5	12	7 ,,	99	- 2	11·7	- 1·4	19	-20	17	-18	1007	+158	36	+ 5
	3. ENGLAND, EAST	4	7	1 ,,	97	- 5	10·9	- 2·1	35	-19	32	-17	1143	+105	40	+ 4
	4. MIDLAND COUNTIES	5	29	23 ,,	92	- 5	15·3	+ 0·7	21	-21	19	-19	980	+112	37	+ 4
	5. ENGLAND, SOUTH	5	14	9 ,,	85	-10	13·0	- 1·3	31	-17	28	-15	1169	+122	42	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	10	1 more	107	-10	22·6	- 4·1	26	-12	23	-10	1039	+144	38	+ 5
	7. ENGLAND, N.W.	5	16	9 ,,	100	- 4	13·7	- 3·4	22	-17	19	-15	1123	+194	40	+ 7
	8. ENGLAND, S.W.	5	15	7 ,,	91	-18	18·6	- 1·9	23	-23	21	-21	1148	+ 84	43	+ 3
	9. IRELAND, NORTH	5	6	2 less	122	- 4	*17·5	- 1·1	17	-13	15	-12	911*	+ 81	33	+ 3
	10. IRELAND, SOUTH	3	4	4 ,,	99	-16	17·7	- 3·6	15	-19	13	-18	990	+ 62	36	+ 2
	— CHANNEL ISLANDS	5	9	4 more	111	+ 1	16·4	+ 0·2	26	-15	34	-14	1220	- 6	45	0

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather at the commencement of the period was fine and bright over the southern and south-eastern counties, but very unsettled conditions, with frequent thunderstorms and heavy rains, soon spread over the entire Kingdom, and continued, especially over the inland parts of England, until the end of the week. Some of our south-eastern coast stations, however, remained almost entirely free both from thunder and rain.

Temperature was above the mean generally, but only just equalled it in England S.W. and over Ireland, and was slightly below it in the Channel Islands. The highest of the maxima were recorded on the 21st and ranged from 89° in England E., 88° in England S., and between 86° and 80° in the other English districts to 73° in Ireland N. and to 69° in the Channel Islands. The lowest of the minima occurred during the middle or latter part of the week; they varied from 37° in Scotland N., and from 45° in Ireland N. and 47° in the Midland Counties to 50° in many other districts, 52° in England S. and 53° in the Channel Islands.

Rainfall varied very greatly in different parts of the Kingdom. It was less than the mean over Ireland and only a trifle more than that value in Scotland W. and England E.; elsewhere the fall was large, that in the Midland Counties and parts of England S. being quite unusual. The total fall for the week was largest at Oxford and Churchstoke, where 4·38 ins. and 4·05 ins. were respectively recorded. During a severe thunderstorm which burst over the Metropolis on Thursday the rainfall was exceptionally heavy; at Westminster as much as 1·98 ins. was collected in the gauge in the course of about three hours and a half, and again in Acre Lane, Brixton 0·93 ins. fell between 6 p.m. and 7 p.m. on Saturday.

Bright Sunshine was much less than the mean in all districts. The percentage of the possible duration ranged from 34 in the Channel Islands and 32 in England E. to 15 in Scotland N. and E. and Ireland N. and to 13 in Ireland S.

Barometer and Wind. During nearly the whole of this week the distribution of pressure was complex, high pressure areas existing both over Sweden and to the south-westward or westward of the United Kingdom, and depressions in different parts of the intervening regions. At first these latter systems affected our north-western and northern coasts only, but about the middle of the week a new depression advanced over England from the north-westward, and this, after reaching the south-east of England on Thursday, moved very slowly westwards over our southern counties and grew deeper and was passing away towards our south-west coasts at the end of the period. The winds experienced over our Islands were consequently rather variable, but were chiefly from the Northward or North-Eastward in all the more northern and western districts, and mainly between South and West in the south-east. In force they blew freshly or strongly from the Northward along all our western coasts on Thursday, but were mostly light in the east.

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II.—DATA from which the SUMMARY on page 175 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	65	50	61·3	53·0	56·9	+ 4·1	104	0	6	1·00	+ 0·42	*	*	*	*
	Stornoway	72	50	61·9	52·3	56·8	+ 2·2	104	0	6	1·32	+ 0·62	14·6	−16·2	12	−15
	Wick	69	52	62·7	53·4	57·7	+ 2·5	110	0	5	1·24	+ 0·66	*	*	*	*
	Lairg §	78	51	67·5	54·0	60·3	+ 5·5	128	0	4	1·19	+ 0·51	*	*	*	*
	Glencarron §	77	37	65·5	51·5	58·0	+ 3·2	112	0	6	1·15	− 0·26	*	*	*	*
	Fort Augustus §	73	54	66·0	56·6	61·0	+ 4·3	133	0	5	1·69	+ 0·97	15·9	− 4·9	14	− 4
	Fort William §	75	54	68·9	56·2	62·1	+ 5·5	141	0	5	1·06	− 0·16	21·7	− 5·1	19	− 5
1. SCOTLAND, E.	Nairn	75	52	65·0	55·0	59·7	+ 2·5	124	0	6	2·26	+ 1·65	*	*	*	*
	Aberdeen	74	54	65·0	56·3	60·4	+ 3·4	129	0	6	1·32	+ 0·66	16·4	−20·2	14	−18
	Braemar §	72	52	65·1	55·0	59·7	+ 5·4	124	0	7	1·00	+ 0·32	*	*	*	*
	Ochtertyre §	79	52	70·9	56·7	63·3	+ 5·2	149	0	5	1·73	+ 0·99	*	*	*	*
	Leith	74	53	67·9	56·4	61·8	+ 3·1	139	0	6	0·66	+ 0·04	*	*	*	*
	Marchmont §	77	50	66·7	53·0	59·4	+ 2·6	122	0	6	0·87	+ 0·09	24·3	−12·9	21	−12
2. ENGLAND, N.E.	Alnwick Castle	73	53	67·9	56·2	61·6	+ 4·0	137	0	3	1·36	+ 0·71	*	*	*	*
	Durham	76	52	67·3	56·3	61·4	+ 2·4	136	0	7	1·59	+ 0·95	13·6	−23·2	12	−21
	Shields	68	54	65·0	56·0	60·2	+ 2·0	127	0	5	0·86	+ 0·26	*	*	*	*
	Scarborough Ⓜ	68	49	65·4	55·0	59·8	+ 0·5	125	0	7	1·28	+ 0·68	28·0	?	25	?
	Spurn Head	70	57	66·0	58·4	62·2	+ 2·3	141	0	5	0·75	+ 0·37	*	*	*	*
	Fulbeck (Lincolnshire)	85	53	71·1	55·4	62·7	+ 2·4	145	0	5	1·52	+ 0·99	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	86	51	71·1	55·1	62·5	+ 1·7	144	0	5	0·96	+ 0·33	23·4	−20·3	21	−19
	Yarmouth	72	56	67·6	58·6	62·8	+ 2·1	146	0	2	0·33	− 0·26	*	*	*	*
	Geldeston	80	50	70·8	54·3	62·0	+ 1·4	140	0	3	0·30	− 0·24	32·9	−13·6	30	−13
	Cambridge	89	51	72·5	54·6	62·9	+ 1·1	146	0	4	0·80	+ 0·26	30·4	−14·8	28	−14
	Felixstowe	73	56	66·9	57·7	62·0	+ 1·1	140	0	2	0·33	?	47·3†	?†	43†	?†
	Rothamsted	84	51	69·5	54·6	61·5	+ 1·1	137	0	6	1·52	+ 0·94	21·8	−25·0	20	−23
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	85	52	71·9	55·4	63·1	+ 2·9	148	0	5	1·81	+ 1·23	*	*	*	*
	Loughborough	86	54	69·9	56·0	62·5	+ 1·1	144	0	5	2·55	+ 2·03	*	*	*	*
	Colly Weston (Stamford)	86	54	70·9	55·7	62·8	+ 2·1	146	0	6	3·12	?	*	*	*	*
	Cheadle Ⓜ	83	54	67·4	55·1	60·8	+ 2·7	132	0	6	2·81	+ 2·11	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	84	54	67·5	56·6	61·7	+ 2·1	138	0	5	2·03	+ 1·43	15·6	?	14	?
	Churchstoke Ⓜ	79	52	67·5	54·8	60·7	+ 2·5	131	0	6	4·05	+ 3·50	19·2	−22·2	17	−20
	Hereford (Belmont) Ⓜ	81	53	68·4	56·4	62·0	+ 1·4	140	0	5	2.92	+ 2·40	*	*	*	*
	Cirencester	83	47	66·1	55·6	60·5	+ 1·1	130	0	4	2·07	+ 1·42	17·0	−26·9	15	−25
	Oxford	85	54	68·1	56·7	62·0	+ 0·8	140	0	5	4·38	+ 3·83	18·7	−25·8	17	−24
5. ENGLAND, S.	London	88	52	71·1	55·9	63·0	+ 0·2	147	0	5	2·98	+ 2·47	17·2†	−24·4†	16†	−22†
	Swarraton (Alresford) Ⓜ	79	52	67·9	55·2	61·1	+ 1·7	134	0	5	1·76	+ 1·16	*	*	*	*
	Dungeness	73	52	68·1	56·1	61·7	+ 0·1	138	0	5	0·43	+ 0·05	37·2	?	34	?
	Hastings (St. Leonards)	75	54	68·1	56·4	61·8	+ 0·6	139	0	3	0·40	− 0·10	47·7	− 3·9	44	− 4
	Southampton	78	54	70·4	57·1	63·3	+ 2·5	149	0	5	2·40	+ 1·82	29·3	−19·8	27	−18
	Portland Bill	69	55	64·4	57·1	60·5	+ 0·6	130	0	5	0·92	?	*	*	*	*
	Shaftesbury Ⓜ	81	53	68·5	56·8	62·2	+ 2·8	141	0	5	1·20	+ 0·55	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	52	66·7	54·6	60.2	+ 2·9	127	0	5	1·75	+ 0·56	*	*	*	*
	Glasgow	74	53	67·8	57·0	62·0	+ 4·5	140	0	5	1·19	+ 0·40	23·9	− 7·6	21	− 6
	Glenlee §	75	50	70·1	54·6	61·8	+ 4·3	139	0	4	0·16	− 0·79	*	*	*	*
	Douglas (Isle of Man)	70	52	66·5	55·2	60·5	+ 3·1	130	0	4	1·04	+ 0·33	27·2	−16·3	24	−15
7. ENGLAND, N.W.	Newton Reigny	77	50	68·3	54·4	60·9	+ 3·4	132	0	5	1·18	?	15·1	?	13	?
	Stonyhurst	77	52	67·4	56·1	61·4	+ 3·0	136	0	6	1·55	+ 0·55	21·3	−17·2	19	−15
	Blackpool Ⓜ	76	52	68·6	56·3	62·0	+ 2·3	140	0	5	1·07	+ 0·37	21·2	−18·5	19	−17
	Manchester (Prestwich)	80	55	68·2	56·3	61·8	+ 3·2	139	0	5	2·76	+ 1·91	16·7	?	15	?
	Liverpool Obsy. (Bidston)	75	54	66·6	57·1	61·5	+ 1·6	137	0	6	1·98	+ 1·34	23·3	?	21	?
	Chester (Hawarden Bridge)	77	55	68·6	57·7	62·8	+ 2·8	146	0	5	2·02	?	*	*	*	*
	Llandudno Ⓜ	77	54	67·3	57·4	62·0	+ 1·8	140	0	6	1·69	+ 1·11	23·5	−16·3	21	−15
	Holyhead	71	53	62·0	55·4	58·5	− 0·4	116	0	5	0·89	+ 0·32	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	53	68·1	56·6	62·0	+ 2·6	140	0	7	1·73	+ 0·81	*	*	*	*
	Pembroke	67	52	61·3	54·7	57·8	− 1·1	111	0	4	0·88	+ 0·30	20·8	−24·7	19	−23
	Clifton												*	*	*	*
	Bath	81	53	68·6	57·6	62·7	+ 1·1	145	0	5	1·85	?	20·9	?	19	?
	Arlington (N. Devon)	69	51	63·0	54·0	58·2	− 0·6	113	0	6	1·51	+ 0·49	*	*	*	*
	Cullompton Ⓜ	77	48	69·0	55·0	61·5	+ 0·3	137	0	5	1·20	+ 0·55	26·3	−15·7	24	−15
	Falmouth	70	54	63·7	56·9	60·1	− 0·4	127	0	4	0·88	+ 0·18	25·9	−20·5	28	−19
	Plymouth	72	55	65·5	57·6	61·3	+ 0·1	135	0	6	2·16	+ 1·53	20·2	−26·3	19	−24
9. IRELAND, N.	Malin Head	65	52	59·0	53·9	56·2	− 1·2	99	0	5	0·29	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	73	50	63·1	53·9	58·2	+ 1·6	113	0	4	0·78	− 0·01	*	*	*	*
	Blacksod Point	62	45	58·9	53·4	56·0	− 2·0	98	0	5	0·25	?	*	*	*	*
	Markree Castle	66	50	61·4	53·0	56·9	0·0	104	0	4	0·69	− 0·16	10·2	−18·5	9	−16
	Armagh	72	49	65·2	53·7	59·1	+ 1·3	120	0	5	0·45	− 0·27	23·0	− 7·8	21	− 7
	Donaghadee	66	52	61·9	53·4	57·4	− 0·1	108	0	6	0·81	+ 0·13	*	*	*	*
10. IRELAND, S	Dublin	74	52	66·5	55·3	60·5	+ 0·4	130	0	4	1·14	+ 0·54	18·1	−19·1	16	−18
	Parsonstown	69	51	63·3	54·1	58·4	0·0	115	0	3	0·44	− 0·26	7·5	−23·5	7	−21
	Kilkenny	72	50	64·6	54.6	59·3	+ 0·1	121	0	3	0·11	− 0·51	*	*	*	*
	Roche's Point	68	52	64·9	54·7	59·2	− 0·4	120	0	2	0·21	− 0·50	*	*	*	*
	Valencia	63	53	61·3	54·4	57·6	− 1·3	109	0	5	0·32	− 0·63	18·7	−15·5	17	−15
	Killarney	79	52	66·5	53·9	59·8	+ 0·2	125	0	2	0·20	− 0·67	*	*	*	*
	Foynes	68	51	62·3	54·1	57·9	− 0·1	111	0	3	0·22	− 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	53	64·3	56·4	60·1	− 0·6	127	0	3	0·66	+ 0·13	26·6	?	25	?
	Jersey	69	56	65·9	58·0	61·7	− 1·0	138	0	6	1·17	+ 0·64	41·9	−13·1	39	−13

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

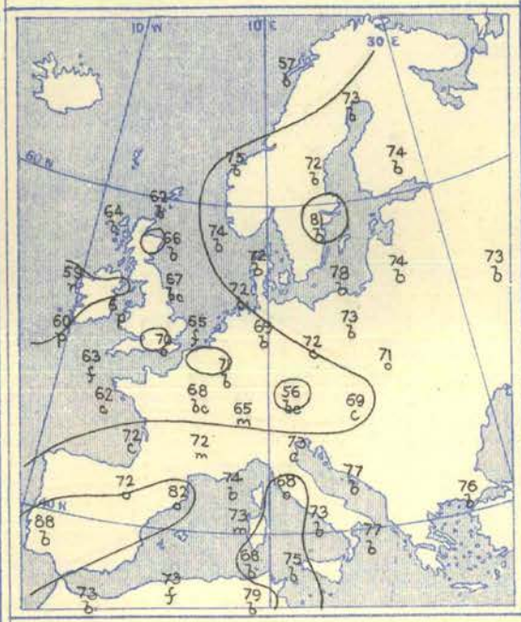
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page

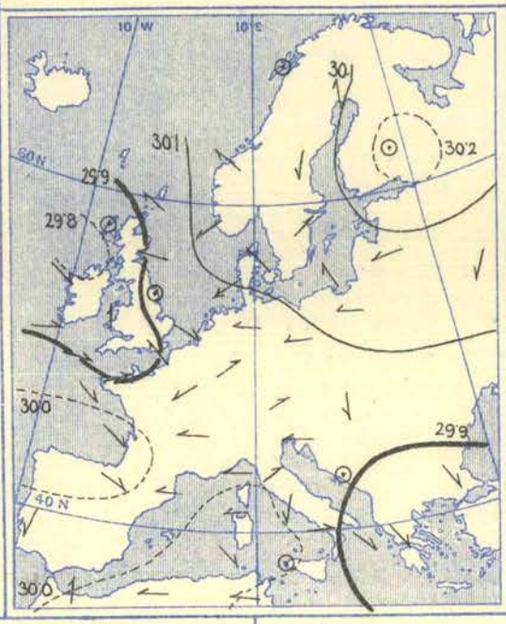
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 21st July.

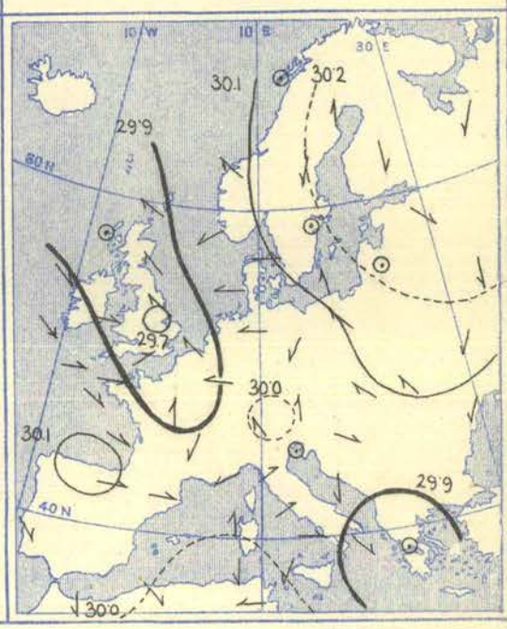
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of Continental Europe and the north-eastern parts of Great Britain, not so fair at our north-western and western stations and over the Channel; thunder reported at Stornoway and Holyhead, showers in the north and west of Ireland. Considerable rain later in all the latter districts and in the countries lying to the eastward of the North Sea, as well as at Paris and the east of France, thunder and lightning in many places, very changeable in London and close.

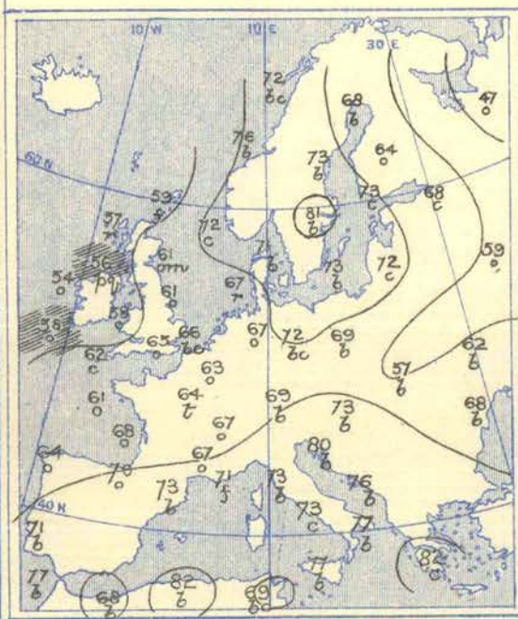
Temperature risen greatly at the northern and central stations, but giving way over the western and southern districts and in the west of France. Morning readings ranging from 88° at Lisbon, 82° at Barcelona, and above 70° over the Mediterranean as a whole, as well as over the greater part of central and northern Europe, and the southern and midland parts of England. Lowest, 59° at Blacksod Point and Donaghadee. Rising later to 90° at Stockholm, 84° at Christiansund, 85° to 88° over central England, 86° at Brussels and Berlin, 90° at Paris, 96° at Lyons, and 99° at Biskra.

Wind light generally—mainly South-Easterly and Easterly over Scandinavia and Scotland, Westerly to North-Westerly over the south-west of our Islands, North-Westerly, moderate, over the Bay of Biscay, northerly at Lisbon, Easterly on the north coast of Africa. Shifting to North-West later over Ireland and to South-West or West over our southern counties. Varying greatly over the Mediterranean and north of Africa.

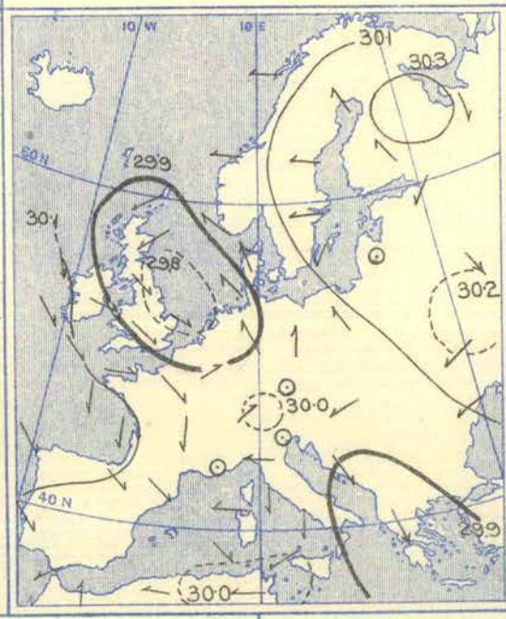
Barometer highest, (1) ? 30·47 ins. at Kuopio, 30·3 ins. to 30·2 ins. over central Scandinavia; (2) 30·0 ins. and more over the southern parts of the Bay of Biscay and the north of Spain. Lowest, 29·8 ins. and less in a depression off our north-west coasts and in a small secondary over the south of Dorsetshire, 29·9 ins. and less over south-eastern Europe and Asia Minor. The British disturbances moving north-eastwards later and a definite anticyclone appearing over the north of Spain. Rising also over south-eastern Europe.

Monday, 22nd July.

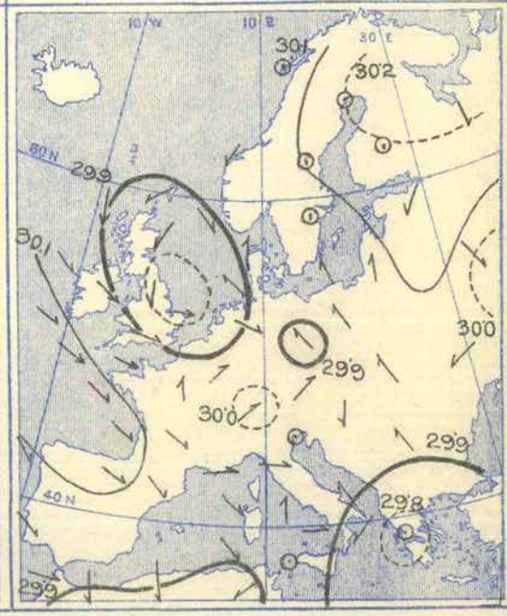
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine and bright over the greater part of central Europe and the Mediterranean, cloudy and unsettled over the British Islands and their neighbourhood, rainy in Scotland and the north of Ireland, thunder at Paris. Thunder later at Cuxhaven and Shields, lightning in London, rain sporadically in many parts of the United Kingdom as well as in western Germany, and the amount of bright sunshine decreasing greatly. Becoming less settled generally.

Temperature decreasing over our Islands and neighbouring countries. Morning readings highest, (1) 81° at Stockholm, 72° at Bodö, 80° at Neufahrwasser; (2) 82° to 80° at the Greek stations, 82° at Algiers, and 77° to 70° at many Mediterranean stations. Lowest, 54° at Blacksod Point, 58° at Holyhead, 59° at Sumburgh Head. Rising later to between 70° and 75° over England to 88° at Berlin, 84° at Nice, 92° at Cagliari, and still higher over Algeria.

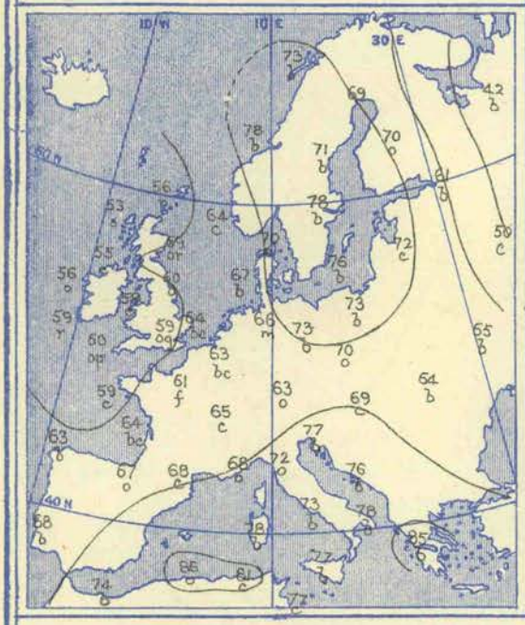
Wind Easterly over northern Europe, South-Easterly over Denmark and the Baltic, North-Easterly in Scotland, North-North-Westerly over Ireland, North-Westerly to Westerly over England—fresh in several places, but not very strong anywhere. Moderating considerably in force later, but not changing much in direction.

Barometer highest, (1) 30·3 ins. to 30·1 ins. over Finland and Sweden; (2) 30·1 ins. and more over the west of our Islands, the Bay of Biscay and the north of Spain. Lowest, 29·8 ins. and less in a depression over the North Sea and east of England and below 22·9 ins. over south-eastern Europe. Falling later in the last-named region; depression over the North Sea inclined to fill up, but a new one appearing over the northern part of the Adriatic

Tuesday, 23rd July.

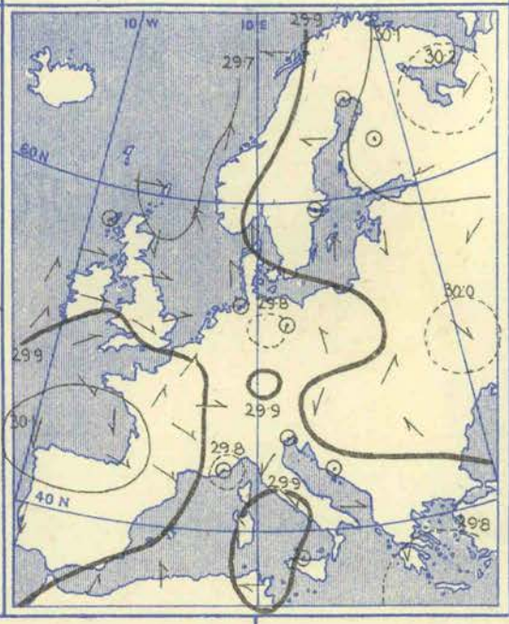
Temperature and Weather.

8 a.m.

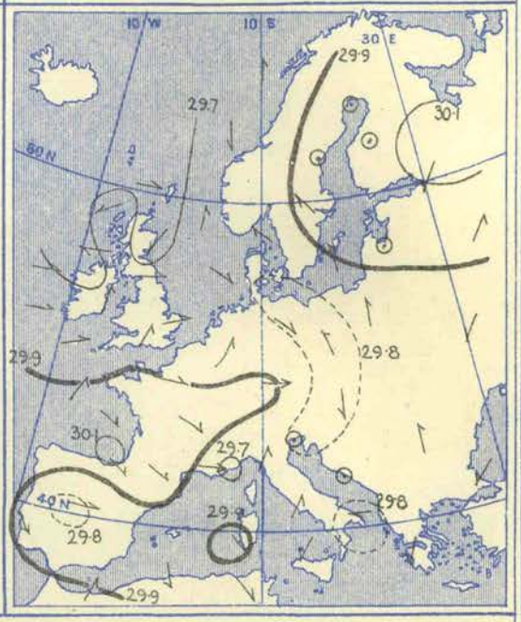


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at most of the Continental stations, but cloudy or dull over our Islands generally with rain at many western and northern stations. A thunderstorm reported from Copenhagen. Rain falling later over our Islands and in large amounts over France, Austria, and northern Italy, with thunderstorms in many places.

Temperature fallen a little in most places. Morning readings highest, (1) 85° at Patras and Aumale, 81° at La Calle, 80° at Athens, 78° at Brindisi and Cagliari; (2) 78° at Stockholm and Christiansund, 76° at Wisby and Memel, and 73° at Bodö. Lowest, 42° at Archangel, 53° at Stornoway, 55° at several stations in Ireland, and 56° at Sumburgh Head and Blacksod Point. Maxima over our Islands much lower than of late, the highest recorded being 69° at Loughborough and Dungeness; but rising to 86° at Stockholm, Bodö and Berlin, and 81° at Nice, touching 90° in some parts of Italy and Austria, and reaching 95° at La Calle, and 99° at Tunis.

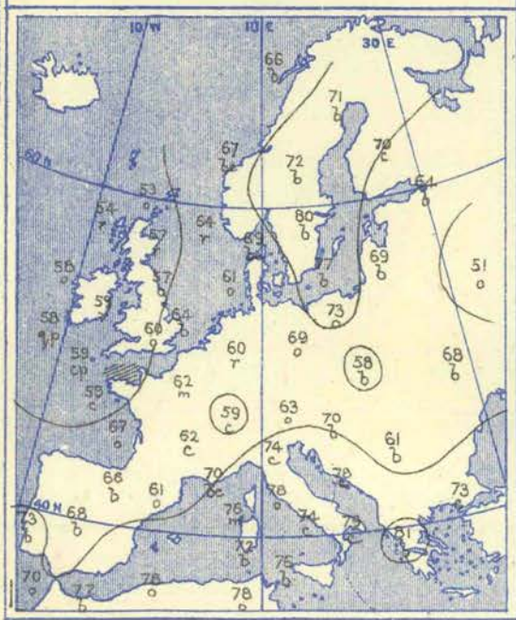
Wind Southerly over Scandinavia, Westerly to South-Westerly over our Islands, North-Westerly over France, Easterly over northern Russia, variable in most other places. Becoming Westerly over our Islands and in France later, but no great change elsewhere.

Barometer highest, 30·2 ins. and more over the White Sea, 30·1 ins. and more over the Bay of Biscay, and 30·0 ins. in a small area over southern Russia. Lowest, 29·7 ins. and less in a shallow depression lying over the northern part of the North Sea, and 29·8 ins. and less in three small centres lying respectively over north Germany, the Gulf of Genoa, and the Grecian Archipelago. Depressions in north becoming complex later, that over the Gulf of Genoa growing rather deeper, and a new one appearing over central Spain.

Wednesday, 24th July.

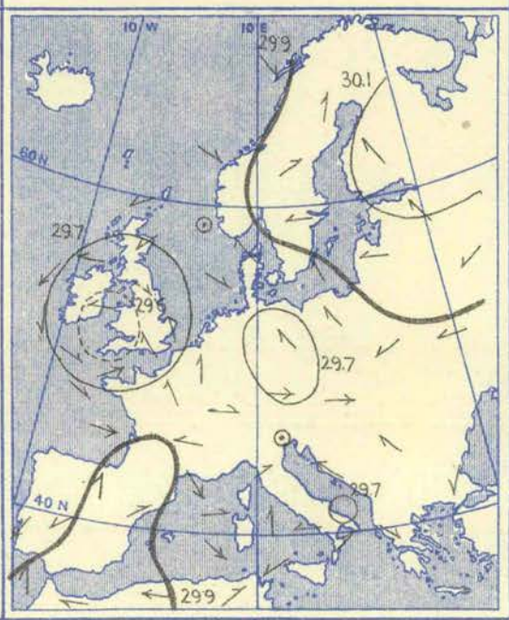
Temperature and Weather.

8 a.m.

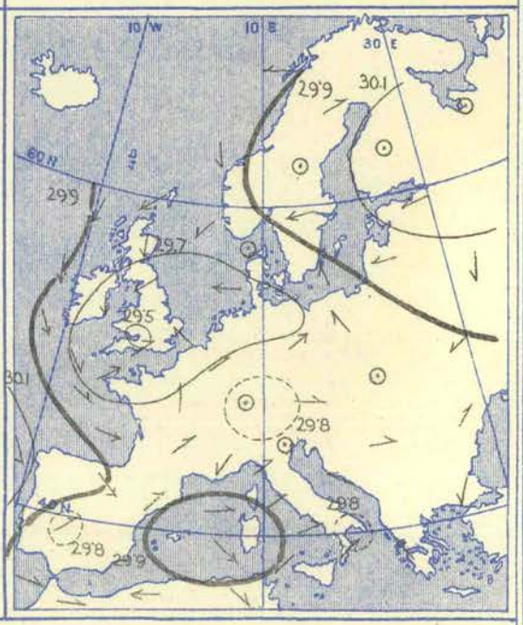


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over almost the whole of Great Britain, and a great deal of France and the neighbourhood of Skudesnaes, cloudy over southern and central Europe. Clear over northern Europe and also over Spain. Large quantities of rain falling later over many parts of England and France, thunder and lightning in many places over England, mainly at Oxford; and smaller amounts reported of rain in various portions of Germany and Finland.

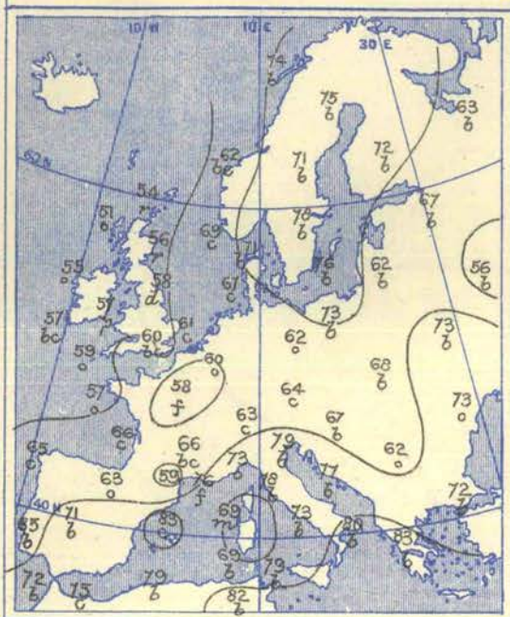
Temperature fallen over France and Germany, risen over countries bordering on the Gulf of Bothnia. Morning readings highest, (1) 81° at Patras, 78° at La Calle, Algiers and Rome; (2) 80° at Stockholm, 79° at Riga and Brussels. Lowest, (1) 53° at Sumburgh Head, 54° at Donaghadee, 58° on the west coast of Ireland; (2) 51° at Moscow. Maxima recorded later not touching 70° in any part of our Islands, but 77° at Berlin, 82° at Nice, 87° at Perpignan, 99° at Lisbon

Wind Easterly to North-Easterly over the northern parts of the Kingdom, Northerly in the west, Westerly over the west of France, Southerly on our eastern coasts; very variable at the Continental stations—mainly South-Easterly to Easterly over the Baltic and north Germany. Wind force increasing later over the British Islands and Northerly wind spreading all over Scotland.

Barometer highest, (1) 30·1 ins. and more over Finland and the north of Russia; (2) 29·9 ins. and more over the eastern half of Spain and the Pyrennes. Lowest, 29·6 ins. and less in a depression over Wales, 29·62 ins. at Berlin and Prague, 29·69 ins. at Breslau. The Welsh depression moving eastward to our midland counties later, that over Germany moving north-westwards to the neighbourhood of Hamburg. Barometer rising in Ireland and Scotland.

Thursday, 25th July.

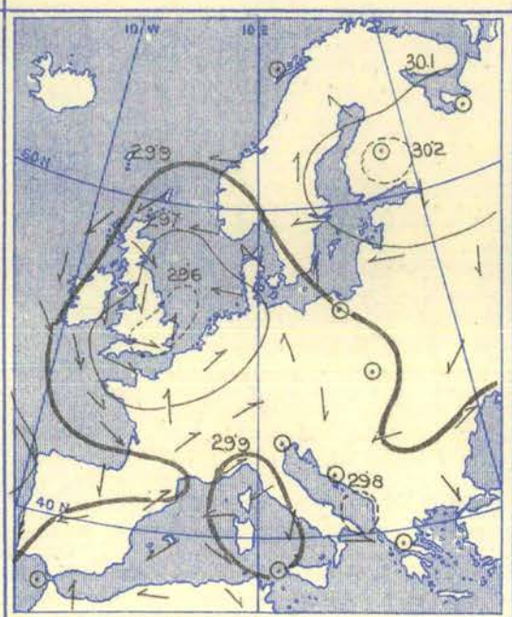
Temperature and Weather. 8 a.m.

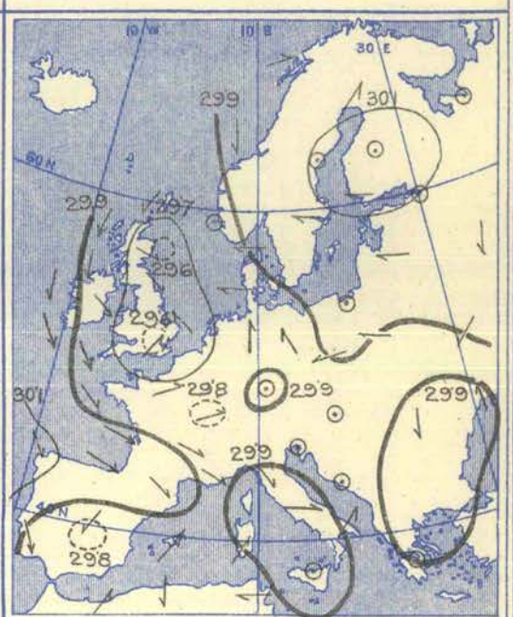


Weather in morning fine and bright over northern and eastern Europe, and also over the Spanish Peninsula, less fair over central Europe, dull, very unsettled and rainy over many parts of Great Britain, showery in the north of Ireland. Very heavy rains and continuous thunderstorms over the southern parts of our Islands (not on our east coast), rain more or less over other parts of Great Britain and France (1·52 ins. at Oxford, 0·7 to 2 ins. and more in London, 2·9 ins. at Paris), and large quantities in the east of Scotland also.

Temperature remaining very much above the average in Sweden. Highest readings reported, (1) 83° at Patras, and above 80° at several Mediterranean stations, 79° at Trieste; (2) 78° at Stockholm, and above 70° over Sweden generally. Lowest, 51° at Stornoway, 55° at Malin Head, Donaghadee and Blacksod Point, 56° at Loughborough (Leicestershire), touching 70° in London later, and recording 81° at Stockholm, 82° at the Scaw and Lyons, 93° at Brindisi, 106° at Biskra.

Barometer and Wind. 8 a.m. and 6 p.m.



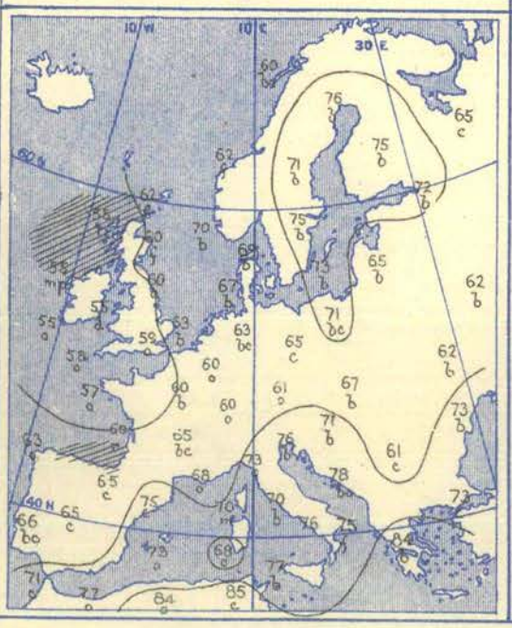


Wind light and anticyclonic over the southern and eastern parts of Europe; cyclonic over our Islands and their neighbourhood. Northerly, strong, in the west and north; South-Westerly to South-Easterly, light, in the east; North-Westerly to South-Westerly over France; Southerly over the Baltic. Not much change later.

Barometer highest, 30·2 ins. and more over Finland, and 30·1 ins. and more over the north-west of Spain, 29·9 ins. and more over the south of Russia. Lowest, 29·6 ins. and less in a depression over the south-east and east of England, and 29·7 ins. at Aberdeen. Falling over northern Europe later. Depression over England moving westwards slowly, and another forming over central Spain. Barometer rising a little over south-eastern Europe

Friday, 26th July.

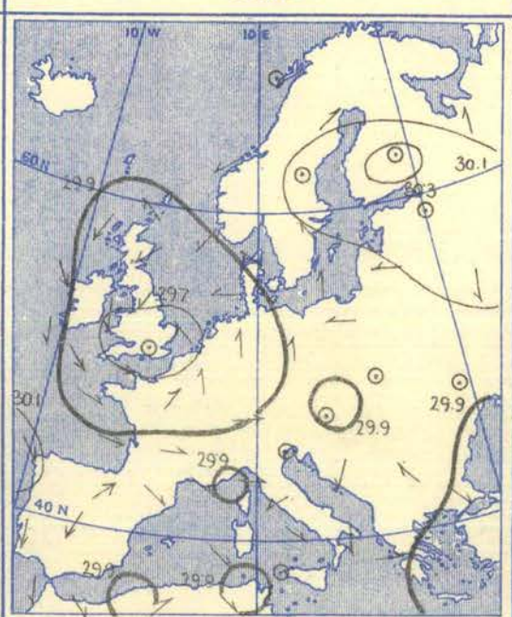
Temperature and Weather. 8 a.m.

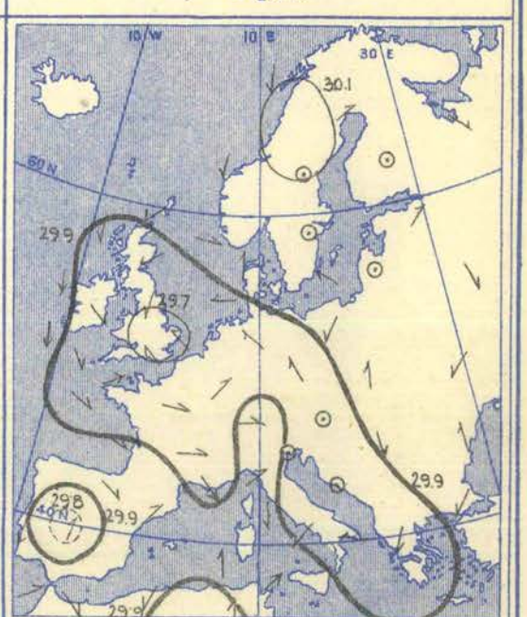


Weather in morning snowery in Ireland, rainy in the south-west of France and over Great Britain, except at the extreme east of England, foggy in several places, thunder at Paris. Very fine over northern, eastern, and the greater part of southern Europe. Rain later over Great Britain as well as in many parts of France and Germany, very little in Ireland and none over Scandinavia. Thunder and lightning again very prevalent over England and at Fanö.

Temperature risen over Germany, Russia, and in Scotland, fallen in the south of England. Morning readings highest, (1) above 80° at Athens, La Calle and several parts of Algeria. Above 70° at several of the Mediterranean and Adriatic stations; (2) 70° to 76° in Sweden. Lowest, 55° at Stornoway and Blacksod Point, 54° at Donaghadee, and below 60° over nearly the whole of the British Islands; 61° at Brussels and Prague. Not touching 70° later in any part of our Islands, but recording 79° at Berlin and 82° at Nice.

Barometer and Wind. 8 a.m. and 6 p.m.





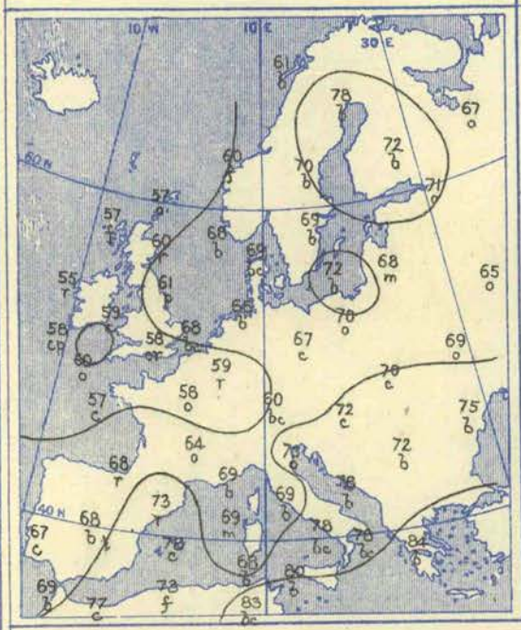
Wind Very light and anticyclonic over northern Europe, anticyclonic, but not so light, over the Spanish Peninsula. Cyclonic in our Islands—Northerly in the west, Southerly to North-Easterly in the east, Westerly over France. The Northerly wind blowing strong at some of the western stations, but the Southerly breeze in the east remained very light. Very little change during the day, excepting that a temporary cyclonic circulation appears to have been set up over Spain.

Barometer highest, (1) 30·31 ins. at Kuopio and exceeding 30·0 ins. all over northern Europe; (2) 30·12 ins. at Corunna and exceeding 30·0 ins. all over the north of Spain and south-western parts of the Bay of Biscay. Lowest, 29·65 ins. in a shallow depression over our eastern and midland counties. Other very minor high and low pressure systems prevalent over central and southern Europe. The northern high pressure area beginning to give way later and moving north-westward. Scarcely any change in the depression over England.

Saturday, 27th July.

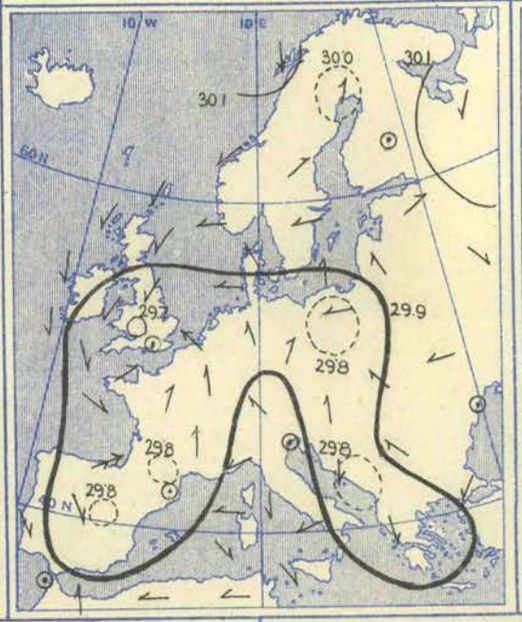
Temperature and Weather.

8 a.m.

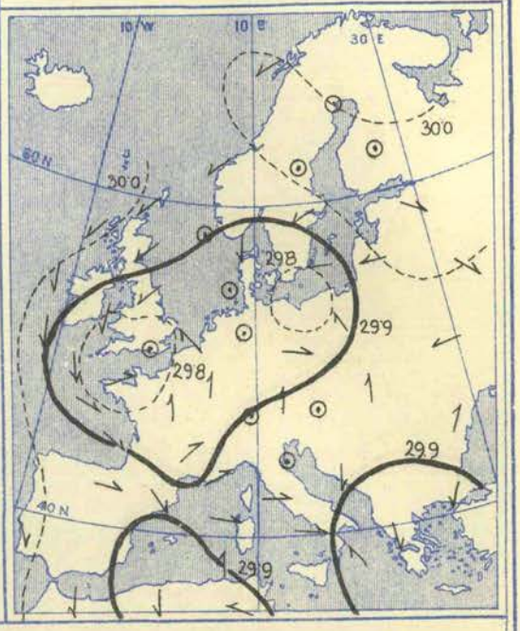


Barometer and Wind.

8 a.m.



6 p.m.



Weather less fair than of late over Russia and southern Europe, remaining very fine over Scandinavia, but very unsettled in our Islands, with rain in most places. Much rain later over the southern half of England (1·29 in London) and nearly an inch at the Helder. Considerable falls also in the south of France and at several Swedish stations; thunder in the south and centre of England and at Cuxhaven.

Temperature changed but little and irregularly. Morning readings again above 80° at several Algerian stations and at Patras, 80° at Palermo, and above 70° at many of the Mediterranean and Adriatic stations; (2) 72° at Wisby and Hangö, 78° at Haparanda. Lowest, 55° at Blacksod Point, 58° at Parsonstown and in London, 61° at Berlin. Rising later to 71° at Donaghadee but not touching 70° at any of our other stations; reaching 81° at Haparanda, 77° at Fanö and Berlin, 81° at Nice, 85° at Perpignan.

Wind Easterly over the south of Scandinavia, North-Easterly in Scotland, Northerly at our western stations, South-Westerly to South-Easterly on our east coast. Very variable over the Continent as a whole, and a West-South-Westerly gale reported at Biarritz. Very little change later; becoming more Easterly over England, falling calm at Haparanda.

Barometer falling over Finland, the Baltic, and in Spain and the south-west of France; rising in Scotland. Distribution of pressure becoming still more generally complex. English depression moving slowly westward and its centre found near Oxford; other systems over Germany, Dalmatia and Spain. English system subsequently moving towards Dorsetshire. Rise of barometer in Scotland ceased.

GENERAL NOTES.

The condition of the atmosphere at the commencement of the week was slowly becoming less settled than of late. An anticyclone with maximum readings of 30·4 and more lay over Finland and northern Europe, and a second similar system over the north of Spain and neighbouring parts of the Bay of Biscay. A depression had appeared off the north-west of the British Islands, and a shallow secondary over the south-west of England and off the Dorsetshire coasts. The depressions referred to subsequently passed across the Kingdom to the North Sea and there became greatly modified in form. Cloudiness began to increase and the direction of wind was more variable. On Tuesday night a new depression appeared in the north-west and reached Wales by the following morning. Thence it moved to the south-east of England, and nothing unusual for such disturbances was reported till Thursday when thunderstorms of great severity and continuity were developed over England, and subsequently at certain Continental stations, and exceedingly large quantities of rain [for further details see the Daily Weather Report]. This depression (and some secondaries) were the dominant systems over western Europe till the close of the week. The manner in which the east and south-east coasts of England escaped is noteworthy. Temperature fell after Sunday—the daily maximum in London falling from 88° on that date to 66° on Tuesday, and after a temporary recovery to 63° on Saturday.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	16·7	-13·6	14	-12	WORTHING	17·2	?	16	?
STRATHPEFFER SPA					BOGNOR	19·7*	?	18*	?
EDINBURGH	9·8	-22·9	9	-20	WATERGATE (Emsworth)	19·6	?	18	?
MORPETH	26·7	?	24	?	WESTBOURNE (Emsworth)	23·0*	?	21*	?
NEWCASTLE-ON-TYNE	6·9	?	6	?	VENTNOR HOSPITAL	29·3	-18·7	27	-18
OSWALDKIRK (Yorkshire)	20·5	-14·7	18	-14	BOURNEMOUTH	30·6	?	28	?
YORK					SOUTHPORT	26·5	?	24	?
LOWESTOFT	49·5	?	45	?	RHYL	*	?	*	?
HOLLESLEY BAY	42·2	?	38	?	COLWYN BAY		?		?
SHEFFIELD	32·5	?	29	?	ABERDOVEY	24·7*	?	22*	?
WORKSOP	21·7	-14·6	20	-13	TENBY	22·6	-23·2	21	-21
THURCASTON (Leicestershire)	21·9	-17·6	20	-16	NEWQUAY	21·0	-26·8	19	-25
MARGATE	46·2	+ 1·4	42	+ 1	TORQUAY				
BROADSTAIRS	44·7	?	41	?	CAHIR (Duneske)	13·7*	?	12*	?
EASTBOURNE	44·2	- 7·3	41	- 6	GUERNSEY	40·8*	-15·9	38*	-15
BRIGHTON	28·3	-23·3	26	-22					

* The values at Rognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending June 29th, 1901	York	—	—	—	—	—	—	—	—	—	—	—	43·1	+ 3·2	37	+ 3
,, ,, ,, ,, ,,	Margate	—	—	—	—	—	—	—	—	—	—	—	66·3	+22·5	58	+19
,, ,, ,, ,, ,,	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	81·0	+29·5	71	+25
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	65·0	?	56	?
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	66·8	?	58	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 31.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 3RD, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 182.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	78	42	63·9	51·2	57·1	2 above	106	+18	0	0	1359	+220	561	− 1
	1. SCOTLAND, EAST	79	45	70·7	53·0	61·2	5 „	134	+31	0	0	1480	+ 95	657	+45
	2. ENGLAND, N.E.	78	48	71·6	55·5	63·0	4 „	147	+32	0	0	1597	+117	516	+ 9
	3. ENGLAND, EAST	83	46	73·4	54·5	63·3	3 „	149	+22	0	0	1735	− 8	560	+ 8
	4. MIDLAND COUNTIES	80	46	73·0	54·7	63·2	4 „	148	+25	0	0	1818	+ 63	591	+32
	5. ENGLAND, SOUTH	81	48	73·7	56·1	64·3	3 „	156	+20	0	0	1844	− 56	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	45	67·7	53·1	59·9	3 „	125	+19	0	0	1580	+ 95	470	+36
	7. ENGLAND, N.W.	76	46	67·9	56·1	61·6	3 „	137	+20	0	0	1697	+ 92	453	+44
	8. ENGLAND, S.W.	79	44	71·6	54·9	62·7	3 „	145	+22	0	0	1867	+ 92	369	+51
	9. IRELAND, NORTH	75	45	64·7	54·7	59·3	2 „	121	+13	0	0	1551	− 31	374	+11
	10. IRELAND, SOUTH	76	46	68·4	55·2	61·3	2 „	135	+18	0	0	1796	− 25	325	+63
	—CHANNEL ISLANDS	75	54	69·5	57·7	63·2	2 „	148	+11	0	0	2072	+ 46	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 182.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	2 less	130	− 1	21·7	− 4·6	25	− 2	22	− 2	886	+102	31	+ 4
	1. SCOTLAND, EAST	1	1	6 „	110	− 1	14·7	− 2·2	52	+17	46	+15	1004	+122	35	+ 4
	2. ENGLAND, N.E.	1	2	4 „	100	− 4	12·0*	− 1·7	43	+ 6	39	+ 4	1050	+164	36	+ 5
	3. ENGLAND, EAST	0	—	5 „	97	− 8	10·9	− 2·7	65	+16	61	+15	1208	+121	41	+ 5
	4. MIDLAND COUNTIES	1	1	5 „	93	− 7	15·4	+ 0·2	43	+ 5	40	+ 4	1023	+118	37	+ 4
	5. ENGLAND, SOUTH	1	2	4 „	86	−12	13·2	− 1·6	66	+18	62	+17	1235	+140	43	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	3	7 „	110	−11	22·9	− 4·7	37	+ 1	34	+ 1	1076	+145	38	+ 5
	7. ENGLAND, N.W.	3	2	5 „	103	− 5	13·9	− 4·0	44	+ 4	41	+ 4	1167	+198	40	+ 7
	8. ENGLAND, S.W.	1	3	5 „	92	−21	18·9	− 2·4	61	+16	58	+14	1209	+100	43	+ 3
	9. IRELAND, NORTH	4	2	6 „	126	− 4	17·7	− 1·7	14	−16	13	−15	925	+ 65	32	+ 2
	10. IRELAND, SOUTH	3	2	6 „	102	−17	17·9	− 4·2	24	−13	22	−12	1014	+ 49	36	+ 2
	— CHANNEL ISLANDS	1	1	4 „	112	− 1	16·5	− 0·2	69	+20	66	+19	1289	+ 14	46	0

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was mainly fine and dry over England and the eastern parts of Scotland, but in the west and north of Scotland and over Ireland the sky was very cloudy and slight falls of rain were not infrequent. Thunderstorms were experienced on Sunday at some of our southern and south-western stations, and at Plymouth the accompanying rainfall was heavy.

Temperature was above the mean in all districts, the excess ranging from 2° in Ireland, the Channel Islands, and Scotland N., to 4° in England N.E. and the Midland Counties, and to 5° in Scotland E. The highest of the maxima were recorded on July 30th or 31st, when the thermometer rose to 83° in England E., 81° in England S., and 80° in the Midland Counties ; elsewhere the maximum readings varied from 79° in Scotland E. and England S.W., to 75° in Scotland W., Ireland N. and the Channel Islands. The lowest of the minima occurred on Wednesday or Thursday in Scotland, and on Saturday in most other parts of the country. They ranged from 42° in Scotland N. and 44° in England S.W. to 54° in the Channel Islands.

Rainfall was less than the mean in all parts of the Kingdom. In all districts except Scotland N. the fall was very slight.

Bright Sunshine. The amount was considerably less than the mean in Ireland, and slightly defective in Scotland N., but in excess in all other localities. The percentage of the possible duration ranged from 66 in the Channel Islands, 62 in England S., and 61 in England E. to 22 in Ireland S. and Scotland N., and to 13 in Ireland N.

Barometer and Wind. At the commencement of the week a shallow complex depression was moving away eastwards over our Islands and the North Sea. In its rear the barometer rose slowly, and during the remainder of the week an anticyclone spread gradually over Ireland and England from the Atlantic. Our extreme northern and north-western districts were affected from time to time by shallow depressions moving eastwards towards Norway. Light winds from North-West or North were most prevalent over Ireland and England, but in Scotland the wind was more variable, the dominant current being from West or South-West.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		*	*	*	*	*	*	*			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	48	58·0	49·6	53·5	+ 0·6	81	0	6	0·55	- 0·07	*	*	*	*
	Stornoway	65	50	61·1	51·3	55·9	+ 1·4	97	0	4	0·57	- 0·18	21·3	- 9·4	19	- 8
	Wick	71	42	64·0	49·9	56·5	+ 1·6	102	0	4	0·33	- 0·25	*	*	*	*
	Lairg Ⓢ	78	44	69·8	49·6	59·0	+ 4·4	119	0	4	0·63	- 0·02	*	*	*	*
	Glencarron Ⓢ	72	44	62·7	50·6	56·2	+ 1·5	99	0	5	1·20	- 0·23	*	*	*	*
	Fort Augustus Ⓢ	71	46	67·2	53·6	59·9	+ 3·4	125	0	3	0·30	- 0·42	29·3	+ 8·5	26	+ 8
	Fort William Ⓢ	74	50	64·3	54·1	58·8	+ 2·0	118	0	5	1·09	- 0·16	18·5	- 7·6	16	- 7
1. SCOTLAND, E.	Nairn	77	47	68·7	52·7	60·1	+ 3·1	127	0	2	0·20	- 0·41	*	*	*	*
	Aberdeen	75	50	69·6	53·3	60·9	+ 4·2	132	0	2	0·16	- 0·50	57·3	+21·2	51	+19
	Braemar Ⓢ	77	45	67·6	52·0	59·3	+ 5·3	121	0	2	0·05	- 0·69	*	*	*	*
	Ochtertyre Ⓢ	77	49	72·4	53·7	62·4	+ 4·7	143	0	1	0·01	- 0·79	*	*	*	*
	Leith	79	50	73·0	54·9	63·3	+ 4·9	149	0	0	—	- 0·61	*	*	*	*
	Marchmont Ⓢ	78	45	72·6	51·1	61·1	+ 4·6	134	0	1	0·03	- 0·75	50·3	+13·5	45	+12
2. ENGLAND, N.E.	Alnwick Castle	78	50	72·7	54·8	63·1	+ 5·9	148	0	0	—	- 0·67	*	*	*	*
	Durham	77	49	72·3	53·9	62·5	+ 3·9	144	0	1	0·51	- 0·13	44·0	+ 8·5	40	+ 7
	Shields	76	51	69·6	55·6	62·1	+ 4·4	141	0	1	0·45‡	- 0·15‡	*	*	*	*
	Scarborough Ⓜ	76	50	68·8	54·7	61·3	+ 2·6	135	0	1	0·01	- 0·60	38·4	?	35	?
	Spurn Head	77	57	71·4	59·4	65·0	+ 5·3	161	0	0	—	- 0·40	*	*	*	*
	Fulbeck (Lincolnshire)	78	48	74·7	54·8	64·0	+ 4·2	154	0	1	0·35	- 0·19	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	80	48	75·9	54·0	64·2	+ 3·9	155	0	0	—	- 0·62	59·1	+16·4	55	+15
	Yarmouth	71	54	68·9	56·6	62·3	+ 2·0	142	0	0	—	- 0·55	*	*	*	*
	Geldeston	79	46	74·9	52·4	62·9	+ 2·5	146	0	0	—	- 0·50	65·6	+20·0	61	+18
	Cambridge	83	51	77·6	54·6	65·3	+ 3·9	163	0	0	—	- 0·54	61·0	+16·8	57	+15
	Felixstowe	74	51	69·7	55·6	62·2	+ 1·8	141	0	0	—	?	64·2†	?†	60†	?†
	Rothamsted	79	50	73·4	53·5	62·8	+ 2·6	146	0	1	0·13	- 0·44	60·0	+14·7	56	+13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	78	47	73·4	55·6	63·9	+ 4·0	153	0	1	0·03	- 0·51	*	*	*	*
	Loughborough	79	49	74·9	55·4	64·5	+ 3·5	158	0	2	0·03	- 0·51	*	*	*	*
	Colly Weston (Stamford)	79	50	75·0	54·7	64·1	+ 3·7	155	0	0	—	?	*	*	*	*
	Cheadle Ⓜ	74	46	69·7	54·1	61·4	+ 3·5	136	0	1	0·23	- 0·51	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	75	50	71·3	55·9	63·1	+ 3·7	148	0	0	—	- 0·61	31·0	?	29	?
	Churchstoke Ⓜ	76	48	72·2	54·3	62·6	+ 4·7	144	0	2	0·33	- 0·24	41·5	+ 1·3	38	+ 1
	Hereford (Belmont) Ⓜ	77	46	73·0	53·7	62·7	+ 2·4	145	0	2	0·34	- 0·19	*	*	*	*
	Cirencester	75	47	72·4	54·1	62·6	+ 3·6	144	0	1	0·01	- 0·66	57·8	+14·9	54	+13
	Oxford	80	50	74·9	54·4	63·9	+ 2·9	153	0	1	0·06	- 0·48	51·2	+ 7·6	48	+ 7
5. ENGLAND, S.	London	81	51	76·4	55·9	65·4	+ 3·1	164	0	2	0·02	- 0·49	50·6†	+10·0†	47†	+ 8†
	Swarraton (Alresford) Ⓜ	80	48	73·8	52·9	62·6	+ 3·4	144	0	1	0·48	- 0·12	*	*	*	*
	Dungeness	76	53	72·1	55·7	63·3	+ 1·7	149	0	0	—	- 0·39		?		?
	Hastings (St. Leonards)	80	54	72·6	57·9	64·7	+ 3·5	159	0	1	0·01	- 0·51	70·5	+20·4	67	+19
	Southampton	79	52	76·8	56·2	65·8	+ 3·6	167	0	2	0·54	- 0·06	68·2	+20·0	64	+18
	Portland Bill	79	57	71·3	59·0	64·7	+ 4·5	159	0	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	75	52	72·7	55·4	63·5	+ 4·1	151	0	0	—	- 0·65	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	51	65·1	53·6	59·0	+ 1·9	119	0	5	0·93	- 0·27	*	*	*	*
	Glasgow	71	52	67·4	55·3	60·9	+ 3·7	132	0	2	0·06	- 0·76	31·3	+ 0·8	28	0
	Glenlee Ⓢ	75	45	70·7	49·9	59·6	+ 2·5	123	0	2	0·03	- 0·97	*	*	*	*
	Douglas (Isle of Man)	72	46	67·5	53·4	60·0	+ 2·7	126	0	4	0·11	- 0·66	42·9	+ 0·9	39	+ 1
7. ENGLAND, N.W.	Newton Reigny	76	46	70·9	51·6	60·6	+ 3·7	130	0	2	0·05	?	43·3	?	39	?
	Stonyhurst	71	50	67·9	56·1	61·6	+ 3·4	137	0	3	0·38	- 0·67	46·6	+10·1	43	+ 9
	Blackpool Ⓜ	69	53	66·6	56·6	61·3	+ 1·8	135	0	4	0·11	- 0·61	43·3	+ 5·1	40	+ 5
	Manchester (Prestwich)	73	50	69·7	55·4	62·1	+ 3·5	141	0	2	0·06	- 0·78	42·4	?	39	?
	Liverpool Obsy. (Bidston)	71	56	67·0	58·0	62·2	+ 2·5	141	0	3	0·40	- 0·25	39·9	?	37	?
	Chester (Hawarden Bridge)	70	52	67·9	57·3	62·2	+ 2·3	141	0	2	0·56	?	*	*	*	*
	Llandudno Ⓜ	73	55	68·2	58·0	62·7	+ 2·6	145	0	2	0·18	- 0·42	35·4	- 3·4	33	- 3
	Holyhead	70	53	65·3	55·4	60·0	+ 1·1	126	0	3	0·12	- 0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	79	44	74·3	51·6	62·2	+ 3·1	141	0	3	0·71	- 0·24	*	*	*	*
	Pembroke	71	54	67·3	56·4	61·5	+ 2·6	137	0	3	0·36	- 0·24	55·5	+10·4	52	+ 9
	Clifton												*	*	*	*
	Bath	76	51	74·0	55·1	63·9	+ 2·6	153	0	0	—	?	56·6	?	53	?
	Arlington (N. Devon)	74	46	69·7	52·3	60·4	+ 1·8	129	0	1	0·04	- 1·01	*	*	*	*
	Cullompton Ⓜ	78	50	75·7	53·3	63·7	+ 2·9	152	0	0	—	- 0·65	62·0	+20·0	58	+18
	Falmouth	73	54	68·6	57·6	62·7	+ 2·3	145	0	1	0·09	- 0·64	70·4	+20·9	67	+19
	Plymouth	76	55	71·9	57·7	64·3	+ 3·2	156	0	1	0·97	+ 0·32	67·9	+22·1	65	+21
9. IRELAND, N.	Malin Head	69	54	61·9	55·6	58·5	+ 1·0	116	0	3	0·06	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	70	48	64·4	54·0	58·8	+ 2·2	118	0	3	0·27	- 0·56	*	*	*	*
	Blacksod Point	67	53	62·1	56·1	58·9	+ 1·0	118	0	6	0·37	?	*	*	*	*
	Markree Castle	71	45	64·3	53·8	58·7	+ 1·9	117	0	4	0·18	- 0·70	6·2	-23·2	6	-21
	Armagh	75	50	68·7	55·3	61·5	+ 4·0	137	0	3	0·19	- 0·54	21·5	- 8·5	20	- 8
	Donaghadee	72	50	66·6	53·4	59·5	+ 2·0	123	0	3	0·16	- 0·54	*	*	*	*
10. IRELAND, S	Dublin	76	52	70·7	57·4	63·6	+ 3·7	151	0	3	0·17	- 0·47	29·6	- 7·6	27	- 8
	Parsonstown	73	48	69·4	53·9	61·1	+ 2·7	134	0	3	0·11	- 0·66	20·9	-10·6	19	-10
	Kilkenny	74	47	70·9	53·9	61·8	+ 2·8	139	0	3	0·46	- 0·22	*	*	*	*
	Roche's Point	72	54	69·0	56·6	62·4	+ 2·9	143	0	1	0·01	- 0·76	*	*	*	*
	Valencia	68	47	64·4	55·3	59·5	0·0	123	0	5	0·22	- 0·78	16·0	-18·7	15	-18
	Killarney	73	46	68·3	54·8	61·1	+ 2·2	134	0	3	0·31	- 0·62	*	*	*	*
	Foynes	69	46	66·0	54·5	59·9	+ 1·8	125	0	3	0·18	- 0·63	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	57	65·9	58·4	61·9	+ 1·2	139	0	2	0·21	- 0·34	54·5	?	52	?
	Jersey	75	54	73·0	56·9	64·4	+ 1·7	157	0	0	—	- 0·54	76·7	+ 21·5	73	+20

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

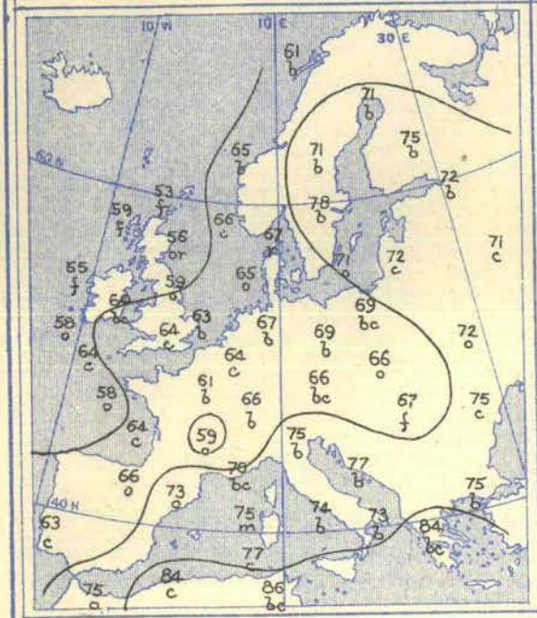
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

‡ Errata.—The corresponding values in the report for July 20th should read "0·31" and "+ 0·23."

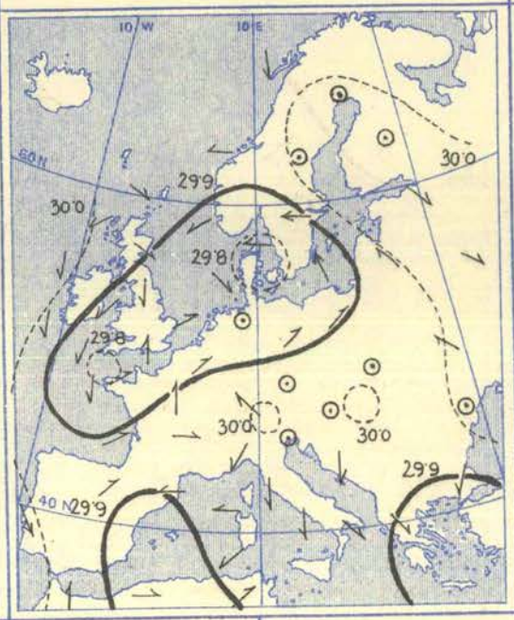
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 28th July.

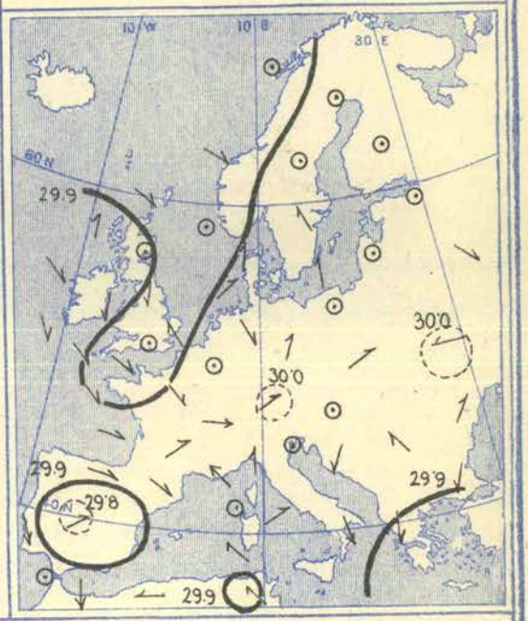
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in many parts of Ireland and Scotland, with rain at Aberdeen, and fog at several of our north-western and western stations. Rain also reported from several western French stations, but fine over England and on the Continent generally. Rain later in Ireland and in considerable amount over central and southern France, where thunderstorms prevailed.

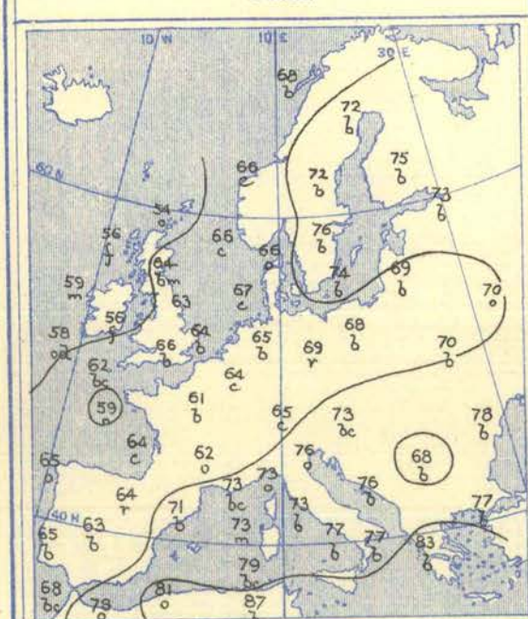
Temperature risen a little in most places. Morning readings highest, 86° at La Calle, 84° at Nemours and Athens, and 78° at Stockholm, exceeding 70° over southern Europe, Russia, and the Balkan provinces generally. Lowest, 53° at Sumburgh Head, 55° at Blacksod Point, and 56° at Wick and Aberdeen. Rising during day to between 70° and 73° in the south of Ireland, and several parts of England, to 84° at Berlin, 82° at Nice, exceeding 90° at Marseilles, and at several of the Italian stations, and reaching 95° at Tunis.

Wind Easterly or North-Easterly at most of the northern Continental stations, Northerly in Ireland, South-Westerly and Westerly over France, almost calm over England, chiefly Northerly over the eastern part of the Mediterranean, variable elsewhere. No important change later, but wind falling calm at several stations over northern Europe.

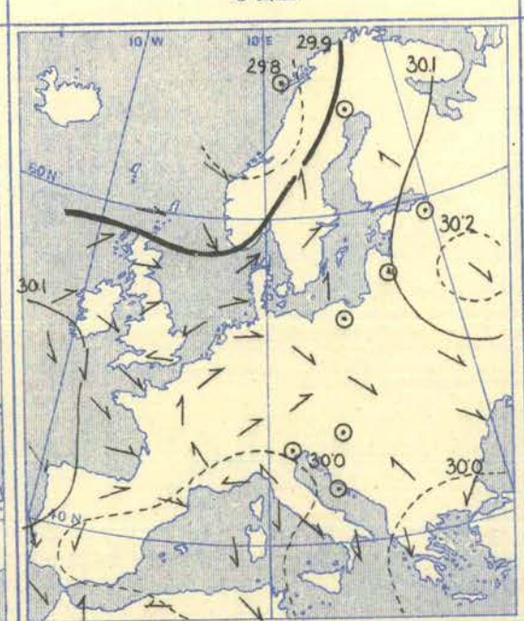
Barometer highest, 30·0 ins. and more off our western coasts and also over western Russia, and the Gulf of Bothnia. Lowest, 29·9 ins. and less in a large shallow depression lying over the south of Scandinavia, Germany, the North Sea, England, and the north-west of France, and also in another system over Algeria, and the east of Spain. No great change later but new depression appearing over central Spain.

Monday, 29th July.

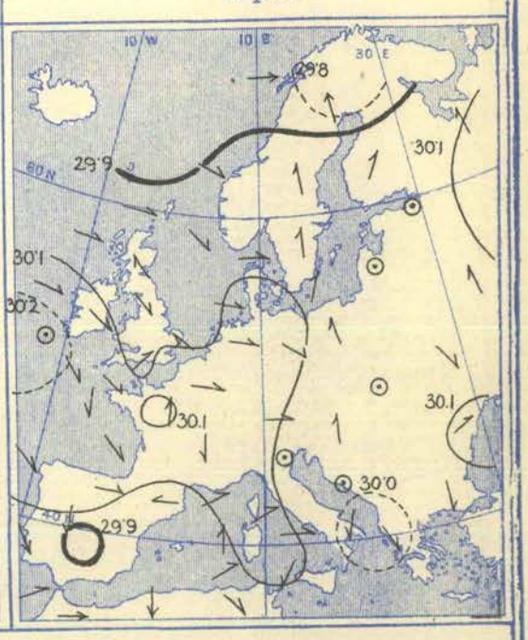
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in Ireland and the north of Scotland, with fog in many places and drizzling rain at Valencia. Rain at Berlin, but fine elsewhere. Rain later over Ireland and the west of England, and also over France, Germany and Scandinavia, heavily at Bodö, where as much as 2·60 ins. was measured. Thunder heard in London during the afternoon.

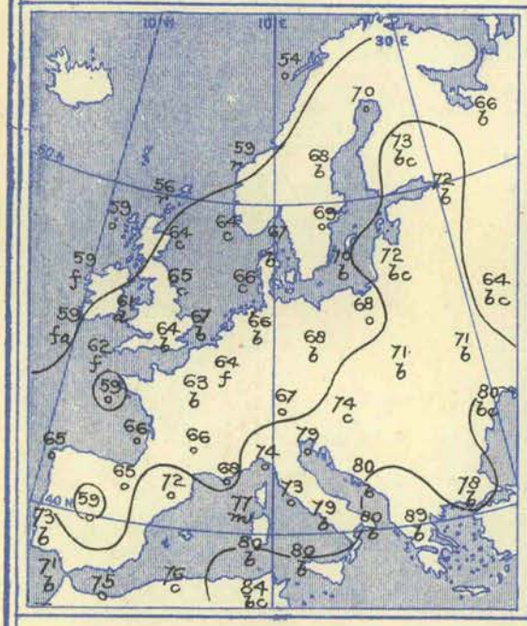
Temperature changed rather irregularly, but inclined to rise in most places. Morning readings highest (1), 87° at La Calle, 83° at Athens, 81° at Algiers, 81° at Aumale, and 79° at Cagliari; (2) 76° at Stockholm, 74° at Wisby, and 75° at Kuopio. Lowest, 54° at Sumburgh Head, 56° at Holyhead and at several Irish stations and at Stornoway, 58° at Wick and Malin Head; rising later to considerably above 70° over Scotland and England, and reaching 79° at Loughborough, and 77° at Oxford and in London; rising to above 80° in the south of France, exceeding 70° in several parts of Italy and Austria, and touching 96° at Sfax and 97° at Tunis.

Wind varying from between South-West to North-West at the Northern stations, and fresh in force at several Scandinavian stations, light and variable over Ireland, England and France, but Northerly over the south of Ireland and on our south-western coast, but variable on the Continent generally. No great change later, but wind veering Westwards over Ireland and the west of Scotland.

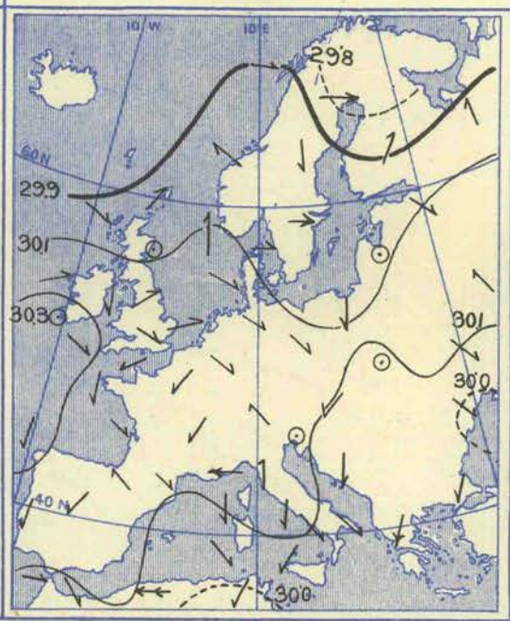
Barometer highest (1), 30·2 ins. and more over central Russia, and 30·1 ins. and more off our south-western coast and the Bay of Biscay. Lowest, 29·8 ins. and less off the north-west of Norway, and 30 ins. and less in two shallow areas over southern Europe. No important change during day, but another small depression appearing over central Spain.

Tuesday, 30th July.

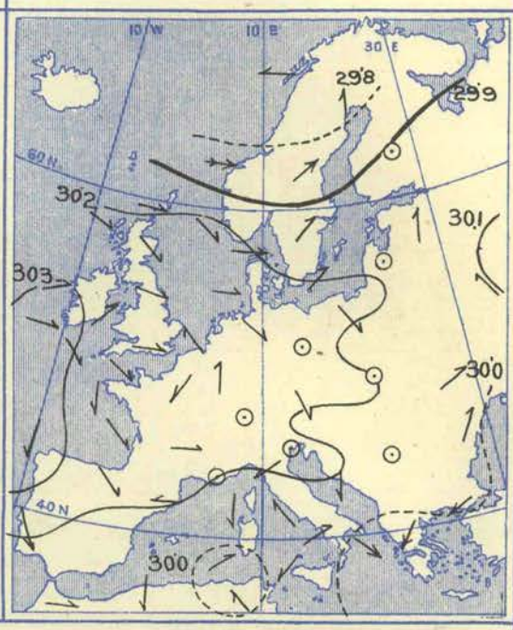
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of Europe, but dull in the north of Scandinavia, the west and north of the British Islands, and over the Gulf of Lions and Genoa. Rain falling at Christiansund, Sumburgh Head and Nice, and fog and drizzle prevailing on our west and south-west coasts. Considerable falls of rain later at Bodö, and in some parts of Spain and northern Italy, and more than 2 ins. at several southern French stations.

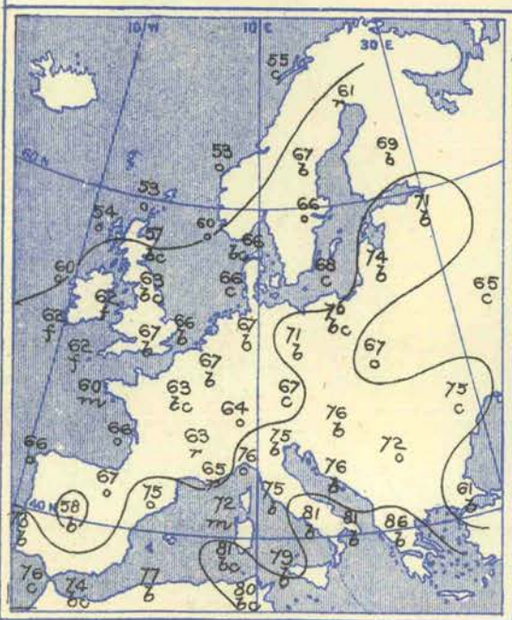
Temperature at 8 a.m., highest 89° at Patras, 86° at Sfax, 84° at La Calle, and well above 70° at the Mediterranean stations generally, between 70° and 73° in Finland. Highest in our Islands 68° at Nairn and Dungeness. Lowest, 54° at Bodö, 56° in the Shetlands, 58° at Malin Head, and 59° at Stornoway and Oxford, rising during day to about 80° over central England, 82° at Hernösand and St. Petersburg, and also in the north-east of France to 93° at Buda Pesth and Athens, 95° at Cagliari and Palermo, and to 100° at La Calle.

Wind light and mainly from between South-West and North-West over the British Isles. No decided current over Europe as a whole, but moderate Northerly winds over the Gulf of Bothnia and South-Westerly over Finland. Light Northerly breezes prevailing over the greater part of France and Spain. Not much change during day, but wind backing to the Southward along the east coast of Sweden and a Westerly gale springing up at Christiansund.

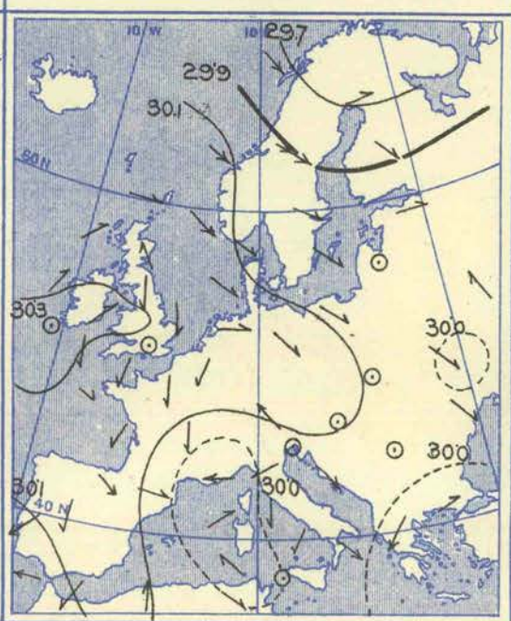
Barometer in morning, highest, 30·3 ins. and upwards in the south of Ireland and the north-west of Spain, and 30·2 ins. and upwards in an irregularly shaped area covering England, the Netherlands, northern Germany, and the north-western half of France. Lowest, 29·8 ins. and less in a depression in the extreme north of Sweden, and 30·0 ins. and less in three other systems lying respectively over the Crimea, Greece, and eastern Algeria. High pressure area maintaining its position during day. Northern depression apparently extending westerly and southerly, and a shallow disturbance moving eastwards over Scotland.

Wednesday, 31st July.

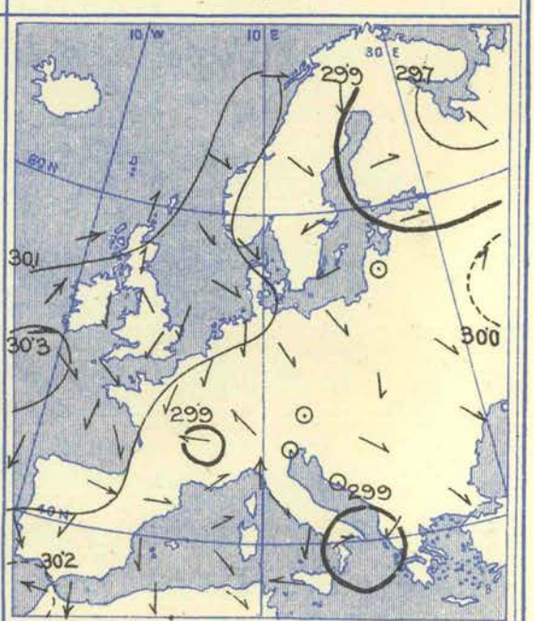
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull on our north-west coasts, and also over Scandinavia and the south of France, where rain was falling, but fine on the Continent generally. Rain later at some north-western and western stations, and also over France, northern Italy, and western Germany, heavily at Lyons and Nice, where thunderstorms occurred.

Temperature fallen a little in most places. Morning readings highest, 86° at Athens, 85° at Patras, 81° at Cagliari and Naples, and 80° at Sfax, and exceeding 70° over the Mediterranean, southern Europe, and western Russia. Lowest, 53° at Sumburgh Head, 54° at Stornoway, 55° at Bodö, and 56° at Donaghadee. Rising during day to 81° in London, to 82° in the west of France, and at several German stations, exceeding 90° in many parts of Austria, Italy, and Algeria, the highest reading of all being 104° at Laghouat.

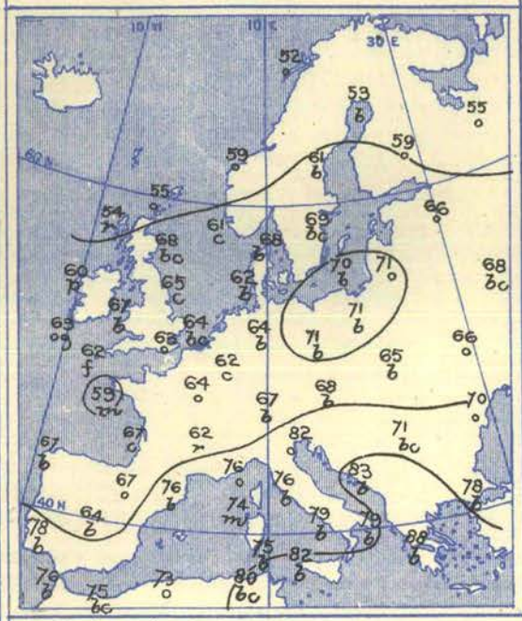
Wind light to moderate from the Southward on our northern and north-western coasts, but Northerly over England, and the west of France, strong from the North-Westward over northern Europe, with a gale at Hernösand, very variable over central and southern Europe. No important change later but wind veering Westwards at some of our north-western and western stations.

Barometer highest, 30·3 ins. and more over Ireland and the west of England. Lowest, 29·7 ins. and less in a rather large depression over northern Europe, and 30·0 ins. and less in three areas lying over southern Europe. Barometer falling rather decidedly on our western coasts later and depressions over southern Europe dispersing.

Thursday, 1st August.

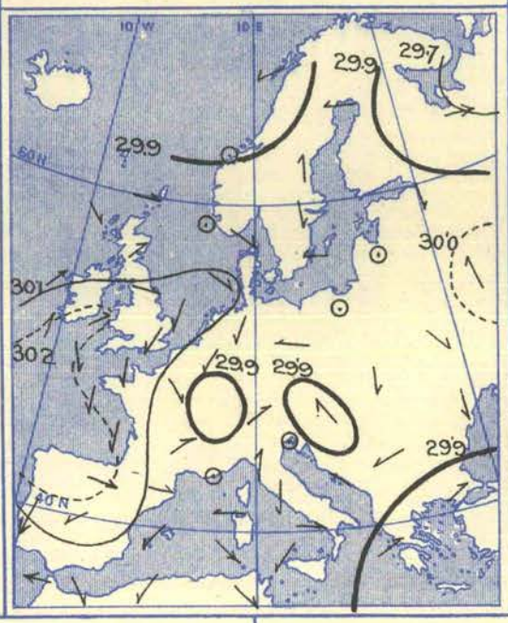
Temperature and Weather.

8 a.m.

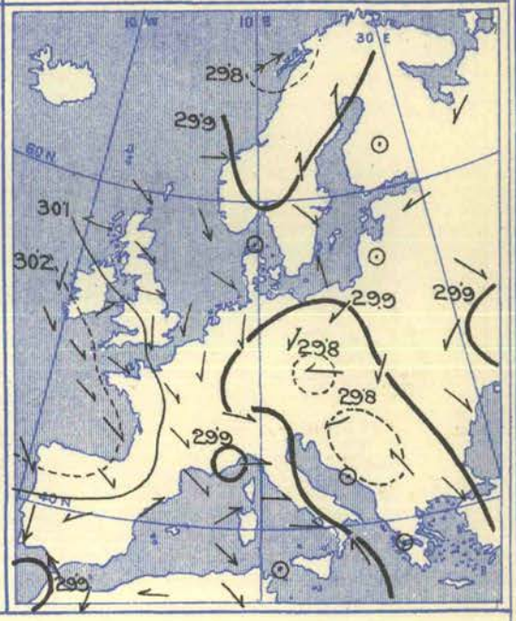


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull, with rain in some parts of Ireland and Scotland. Rain also falling over eastern France and western Europe, fine in most other places, but fog reported from Scilly and also at Cape Sicié. Rain later over Ireland, Scotland and the central part of the Continent. Large amounts reported from eastern France, Austria and some parts of Germany.

Temperature fallen a little in most places but risen at some of the Irish and Scotch stations. Morning readings highest, 88° at Athens, 86° at Patras, 83° at Lesina, 82° at Palermo and 80° at La Calle and Trieste, above 70° over the Mediterranean and southern Europe generally. Lowest, 52° at Bodö, 53° at Haparanda, 54° at Stornoway and 55° at Sumburgh Head and Wick. Rising later to 79° at Leith and 78° at Loughborough, 81° at Frankfurt and 84° at Berlin. Maxima very high over Austria, Italy and Algeria, thermometer rising to 90° at Buda-Pesth, Hermanstadt and Naples, reaching 99° at Brindisi and Aumale, and touching 100° at Biskra.

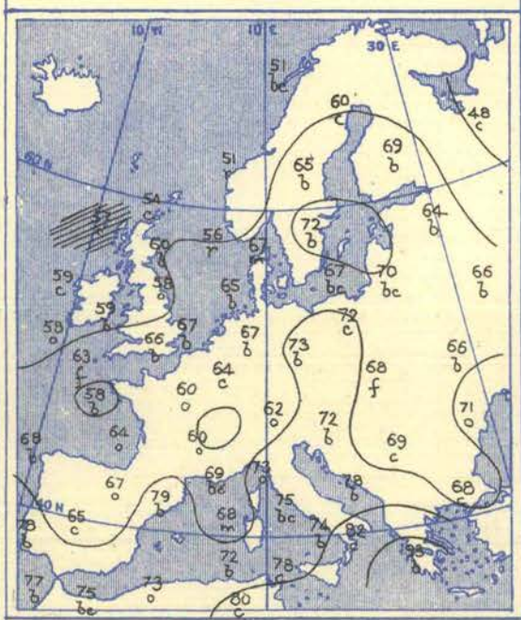
Wind light to fresh from South in Ireland, light from North over England and the west of France, variable in Scotland. Cyclonic but light in force over eastern France and western Germany, variable over Russia, but chiefly North-Easterly over southern Europe. Veering to the Northward later in Ireland and inclined to increase in force.

Barometer 30·2 ins. and more off our south-western coasts and the Bay of Biscay and 30·0 ins. and more over central Russia. Lowest, 29·7 ins. and less over the White Sea, and 29·9 ins. and less in three areas lying respectively off the north-west of Norway, central Europe and the Grecian Archipelago. Norwegian depression travelling north-eastwards later, those over central Europe passing eastward, but new shallow disturbance appearing over the Gulf of Genoa.

Friday, 2nd August.

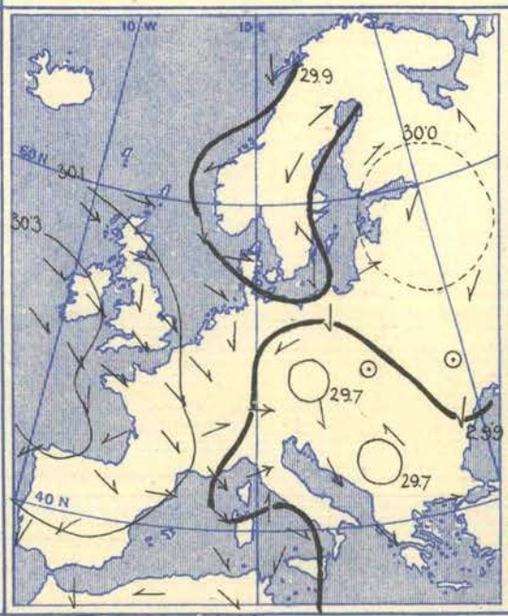
Temperature and Weather.

8 a.m.

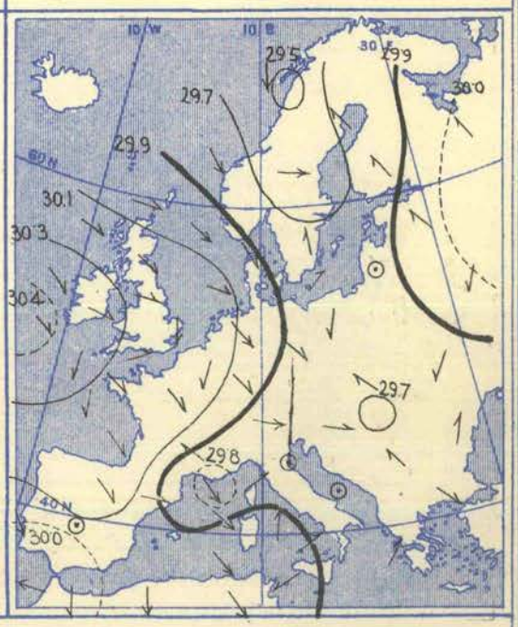


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the British Islands generally, rainy in the west of Norway, and at Belfast, fine elsewhere, but foggy over the Scilly Islands. Rain falling heavily later on the west coast of Norway and in some parts of Austria and Italy. Slight showers also fell at some of our south-eastern stations.

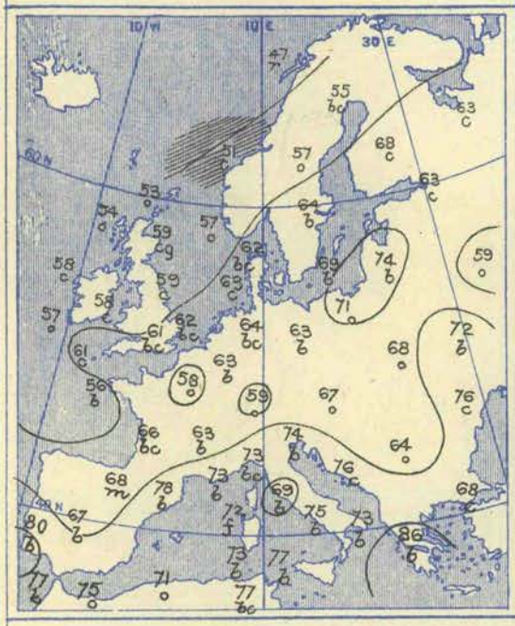
Temperature fallen a little over our Islands and Scandinavia, changed irregularly elsewhere. Morning readings highest, 93° at Athens, 86° at Patras, 82° at Brindisi, 80° at La Calle, and 79° at Barcelona. Lowest, 48° at Archangel, 51° at Bodö and Christiansund, 54° at Sumburgh Head, 56° at Skudesnaes, and 58° at many of our northern and north-western stations. Rising during day to 76° at Dungeness, 75° in London, and 73° at Oxford, exceeding 80° in the south of France, and at Berlin, and reaching 93° over Spain and at several stations in Algeria, the highest recorded being 99° at Athens and 102° at Patras.

Wind light from North-West or North at our own stations, and to the Eastward of the North Sea, but strong at Skudesnaes. Chiefly light from the Northward over France and southern Europe, calm or variable elsewhere. Wind increasing from the Northwards over Scandinavia, no material change elsewhere.

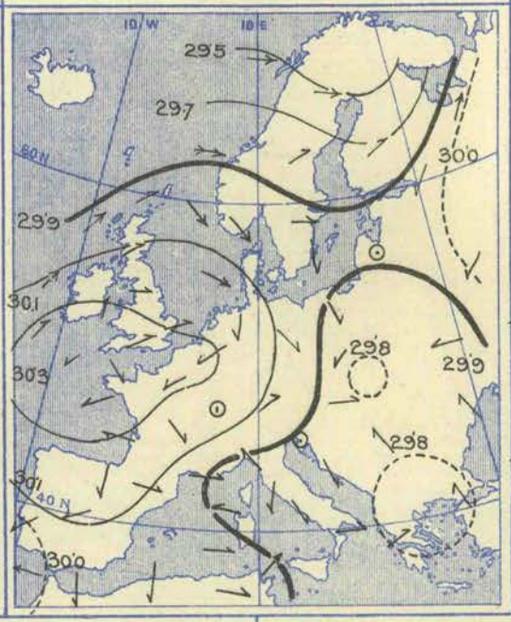
Barometer 30·3 ins. and more over Ireland, the south-west of England, and the Bay of Biscay, and 30·0 ins. over central Russia, and the Balkan Provinces. Lowest, 29·7 ins. and less in two shallow centres lying over central and southern Europe. Rather deep depression appearing over Scandinavia later, but barometer rising on all our own western coasts.

Saturday, 3rd August.

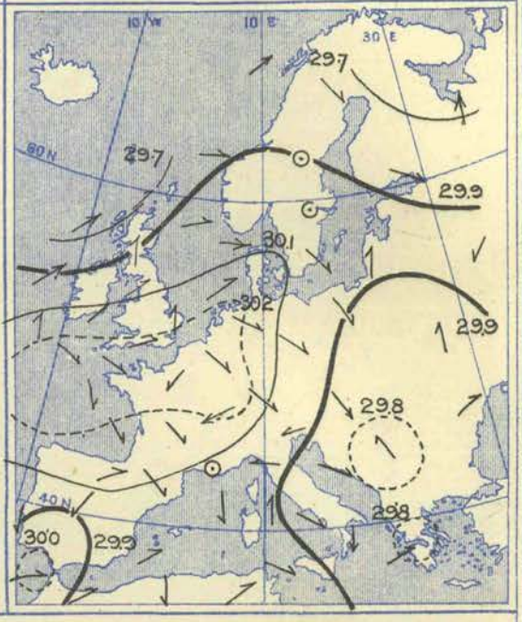
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy at many northern and western stations, and also over Scandinavia and northern Russia, with rain at Bodö and Wick, fair over England and on the Continent generally. Rain later over our northern and western districts, in the west of Norway, and also in some parts of Austria.

Temperature fallen a little over our Islands, but risen on the Continent. Morning readings highest, 86° at Athens and Patras, 78° at Barcelona, and 77° at Palermo, and at several Algerian stations. Lowest, 47° at Bodö, 51° at Christiansund, 53° at Sumburgh Head, and 54° at Stornoway. Rising during day to above 70° over the Midland and southern districts of England, exceeding 80° in the west and south of France and over Italy, reaching 95° at Palma, and 100° at San Fernando and Athens.

Wind Southerly, light to fresh in force on our northern and western coasts, strong from West and North-West over Scandinavia, with a gale at Christiansund, chiefly light from North-East or East at the Continental stations. Veering to the Westward later and increasing somewhat in force at our north-western stations, and becoming more variable on the Continent generally.

Barometer highest, 30·3 ins. and upwards over the south of Ireland, the greater part of England and the north-west of France, and 30·0 ins. and more over northern and central Russia. Lowest, 29·5 ins. and less over Finmark, 29·8 ins. and less in a shallow disturbance over Asia Minor and the Grecian Archipelago, and 30·0 ins. over the south-west of Spain. Barometer falling rather decidedly later on our north-west coasts, and Spanish depression advancing in a north-easterly direction.

GENERAL NOTES.

At the commencement of the week a large area of low pressure lay over the south of Scandinavia, Germany, the North Sea, and the greater part of our Islands. This disturbance filled up slowly, and after occasioning very unsettled and rainy weather over this country, quickly dispersed. There were several shallow disturbances, however, still found lying over the Continent, and off the west of Norway, bringing large quantities of rain to several stations. The weather now gradually improved, and anticyclonic conditions spread over our south-west coasts from the Atlantic, with fog at many of our northern and western stations. With this change temperature rose over our Islands and on the Continent generally, but the weather continued cloudy over the greater part of Ireland and Scotland, and rain fell almost daily. By the middle of the week the anticyclone off our south-west coasts had receded, and depressions began to skirt our western and north-western coasts; at the same time a well-marked depression advanced from the Mediterranean to central Europe. This disturbance, however, had disappeared by the next day, but small shallow areas of low pressure were still found over the Continent till the close of the week, the distribution over our Islands being generally anticyclonic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 182.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	23·3	− 6·3	20	− 6	WORTHING	71·2	+20·4	67	+19
STRATHPEFFER SPA	33·0	+ 4·9	29	+ 4	BOGNOR	71·5	?	67	?
EDINBURGH	47·7	+15·0	43	+14	WATERGATE (Emsworth)	68·6*	?	65*	?
MORPETH	52·7	?	48	?	WESTBOURNE (Emsworth)	64·0	?	60	?
NEWCASTLE-ON-TYNE	40·3	?	37	?	VENTNOR HOSPITAL	70·7*	+21·8	67*	+21
OSWALDKIRK (Yorkshire)	37·5	+ 3·7	34	+ 3	BOURNEMOUTH	66·1	?	62	?
YORK					SOUTHPORT	47·6	?	44	?
LOWESTOFT	72·9	?	68	?	RHYL	*	?	*	?
HOLLESLEY BAY	72·0	?	67	?	COLWYN BAY		?		?
SHEFFIELD	43·2	?	40	?	ABERDOVEY	52·9*	?	49*	?
WORKSOP	35·1	+ 0·1	33	0	TENBY	59·1	+13·9	55	+12
THURCASTON (Leicestershire)	41·2	+ 2·5	38	+ 2	NEWQUAY	54·0	+ 6·5	51	+ 6
MARGATE	62·3	+18·5	59	+17	TOREQUAY	63·7	+15·2	61	+16
BROADSTAIRS		?		?	CAHIR (Duneske)	27·3	?	26	?
EASTBOURNE	64·7	+15·2	61	+14	GUERNSEY	75·8*	+19·6	72*	+18

The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending July 6th, 1901	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	52·2	?	46	?
" " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	46·8	?	40	?
" " " 13th "	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	74·1	+21·6	66	+19
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	73·0	?	63	?
" " " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	78·5	+31·1	69	+26

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 32.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 10TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 188.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	47	61·4	51·1	55·9	1 above	97	+ 7	0	0	1456	+227	561	− 1
	1. SCOTLAND, EAST	74	45	64·7	51·9	57·9	2 "	111	+ 8	0	0	1591	+103	657	+45
	2. ENGLAND, N.E.	87	47	69·6	55·1	61·9	4 "	139	+24	0	0	1736	+141	516	+ 9
	3. ENGLAND, EAST	91	49	73·9	55·9	64·3	4 "	156	+29	0	0	1891	+ 21	560	+ 8
	4. MIDLAND COUNTIES	89	48	71·5	54·5	62·5	3 "	144	+21	0	0	1962	+ 84	591	+32
	5. ENGLAND, SOUTH	85	44	71·0	55·3	62·7	2 "	145	+ 9	0	0	1989	− 47	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	45	62·9	54·0	58·2	1 above	113	+ 7	0	0	1693	+102	470	+36
	7. ENGLAND, N.W.	77	50	65·7	56·1	60·6	2 "	130	+12	0	0	1827	+104	453	+44
	8. ENGLAND, S.W.	78	45	67·0	54·3	60·3	0 (average)	128	+ 4	0	0	1995	+ 96	369	+51
	9. IRELAND, NORTH	69	49	61·8	54·5	58·0	1 above	112	+ 3	0	0	1663	− 28	374	+11
	10. IRELAND, SOUTH	77	51	66·3	56·1	60·9	2 "	132	+14	0	0	1928	− 11	325	+63
	—CHANNEL ISLANDS	82	54	67·9	57·7	62·5	1 "	144	+ 6	0	0	2216	+ 52	160	+38

Rainfall.

	DISTRICTS. (See p. 188.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	13	4 more	137	+ 2	23·0	− 4·2
	1. SCOTLAND, EAST	5	15	7 "	115	0	16·2	− 1·4
	2. ENGLAND, N.E.	3	4	2 less	103	− 4	12·4	− 1·9
	3. ENGLAND, EAST	1	less than ½	5 "	98	−11	10·9	− 3·2
	4. MIDLAND COUNTIES	2	1	5 "	95	− 9	15·5	− 0·3
	5. ENGLAND, SOUTH	2	2	4 "	88	−13	13·4	− 2·0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	13	3 more	117	− 8	24·2	− 4·4
	7. ENGLAND, N.W.	4	7	1 less	107	− 5	14·6	− 4·0
	8. ENGLAND, S.W.	4	5	3 "	96	−20	19·4	− 2·7
	9. IRELAND, NORTH	6	15	7 more	132	− 3	19·2	− 1·0
	10. IRELAND, SOUTH	4	9	0 (average)	106	−17	18·8	− 4·2
	— CHANNEL ISLANDS	3	5	0 (average)	115	− 2	17·0	− 0·3

Bright Sunshine.

	DISTRICTS. (See p. 188.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	15	−11	14	−10	901	+ 91	30	+ 3
	1. SCOTLAND, EAST	28	− 7	26	− 7	1032	+115	35	+ 4
	2. ENGLAND, N.E.	32	− 7	30	− 7	1082	+156	36	+ 5
	3. ENGLAND, EAST	43	− 3	41	− 4	1251	+118	41	+ 5
	4. MIDLAND COUNTIES	38	− 2	36	− 4	1061	+115	37	+ 4
	5. ENGLAND, SOUTH	48	0	46	0	1233	+141	43	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	17	−18	16	−17	1093	+127	37	+ 4
	7. ENGLAND, N.W.	20	−20	18	−20	1187	+178	39	+ 6
	8. ENGLAND, S.W.	35	−11	34	−12	1244	+ 88	43	+ 3
	9. IRELAND, NORTH	8	−21	8	−20	933	+ 44	32	+ 2
	10. IRELAND, SOUTH	23	−15	22	−14	1037	+ 34	35	+ 1
	— CHANNEL ISLANDS	44	− 5	43	− 6	1333	+ 9	46	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was unsettled and rainy in all the more western and north-western parts of the Kingdom, but mostly fine over eastern, central and southern England. On Saturday thunderstorms were experienced in most parts of Great Britain and also at a few places in Ireland.

Temperature just equalled the normal in England S.W. but was above it elsewhere; in England E. and N.E. the excess was as much as 4°. The highest of the maxima were generally recorded on the 9th, when they reached 91° in England E., 89° in the Midland Counties, 87° in England N.E. 85° in England S., and 82° in the Channel Islands. In Scotland W. and Ireland N. the thermometer did not exceed 69°. The lowest of the minima were registered, as a rule, either on the 6th or 7th; they ranged from 44° in England S. and 45° in Scotland E. and W. and England S.W. to 50° in England N.W., 51° in Ireland S. and 54° in the Channel Islands.

Rainfall was considerably in excess of the mean over Scotland and in Ireland N. and just equal to it in Ireland S. and the Channel Islands. Elsewhere the fall was less than the normal, that at our stations in England S. and E. being very slight. In some localities, however, the rainfall during the thunderstorm on Saturday was exceptionally heavy,—at Aberdeen 1·54 ins. was measured, and at Leith 1·79 ins., while at Caistor (Lincolnshire) as much as 2·0 ins. fell during the space of two hours.

Bright Sunshine was deficient in all districts except England S. The percentage of the possible duration ranged from 47 in the last named district, 43 in the Channel Islands, and 41 in England E. to less than 20 in the north-western and extreme northern parts of the United Kingdom generally and to only 8 in Ireland N.

Barometer and Wind. During the greater part of the week the barometer was highest to the south-westward or southward of our Islands while depressions moved eastwards or north-eastwards over the north-western and northern parts of our area, the prevailing wind current being consequently South-Westerly or Westerly. Towards the end of the period, however, the southern high pressure dispersed and a shallow depression moved northwards from the Bay of Biscay and France directly over the United Kingdom. It was this disturbance which brought the thunderstorms and heavy rains noted above.

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II.—DATA from which the SUMMARY on page 187 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°		°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	64	47	58·0	49·3	53·4	+ 0·5	80	0	7	0·49	− 0·19	*	*	*	*
	Stornoway	65	47	60·3	50·1	54·9	+ 0·5	90	0	7	1·09	+ 0·29	14·7	−15·6	13	−15
	Wick	70	48	62·1	50·9	56·2	+ 1·5	99	0	7	1·26	+ 0·68	*	*	*	*
	Lairg Ⓢ	70	47	63·8	50·4	56·7	+ 2·2	103	0	7	0·83	+ 0·20	*	*	*	*
	Glencarron Ⓢ	65	48	59·8	50·6	54·9	+ 0·3	90	0	7	2·05	+ 0·57	*	*	*	*
	Fort Augustus Ⓢ	69	49	64·2	52·6	58·1	+ 1·6	113	0	7	0·83	+ 0·13	16·8	− 3·9	15	− 4
	Fort William Ⓢ	63	50	61·7	53·5	57·4	+ 0·5	108	0	7	2·34	+ 1·07	10·0	−14·5	9	−14
1. SCOTLAND, E.	Nairn	72	48	64·7	51·6	57·8	+ 1·3	111	0	6	1·04	+ 0·42	*	*	*	*
	Aberdeen	70	48	65·3	51·6	58·0	+ 1·5	112	0	4	1·71	+ 1·04	33·7	− 1·8	31	− 2
	Braemar Ⓢ	69	47	61·8	50·3	55·7	+ 2·0	96	0	3	1·49	+ 0·69	*	*	*	*
	Ochtertyre Ⓢ	73	49	65·9	53·4	59·3	+ 2·0	121	0	6	1·42	+ 0·59	*	*	*	*
	Leith	74	51	65·7	54·4	59·7	+ 1·4	124	0	4	2·13	+ 1·51	*	*	*	*
	Marchmont Ⓢ	71	45	64·9	50·1	57·1	+ 1·0	106	0	5	0·93	+ 0·15	30·3	− 5·5	28	− 6
2. ENGLAND, N.E.	Alnwick Castle	74	49	68·0	53·4	60·3	+ 3·5	128	0	4	0·59	− 0·10	*	*	*	*
	Durham	79	48	69·4	55·1	61·8	+ 3·6	139	0	2	0·75	+ 0·10	27·6	− 6·8	26	− 6
	Shields	75	50	67·9	54·9	61·0	+ 3·5	133	0	4	0·56	− 0·07	*	*	*	*
	Scarborough Ⓜ	75	47	68·2	54·7	61·1	+ 2·6	134	0	3	0·37	− 0·25	54·7	?	51	?
	Spurn Head	80	54	70·3	57·3	63·4	+ 4·0	150	0	3	0·08	− 0·32	*	*	*	*
	Fulbeck (Lincolnshire)	87	50	73·6	55·0	63·7	+ 4·3	152	0	1	0·02	− 0·53	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	91	49	76·5	55·9	65·6	+ 5·5	165	0	0	—	− 0·62	32·9	− 8·5	31	− 9
	Yarmouth	78	52	70·9	57·6	63·9	+ 3·8	153	0	2	0·02	− 0·50	*	*	*	*
	Geldeston	81	49	73·9	55·6	64·2	+ 4·1	155	0	1	0·04	− 0·43	34·3	−10·1	33	−10
	Cambridge	89	52	76·6	55·4	65·4	+ 4·3	164	0	1	0·04	− 0·50	47·6	+ 4·6	45	+ 3
	Felixstowe	80	51	72·5	57·3	64·4	+ 4·2	157	0	1	0·10	?	53·4†	?†	51†	?†
	Rothamsted	83	49	72·9	53·3	62·5	+ 2·7	144	0	1	0·06	− 0·51	43·3	− 0·7	41	− 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	89	50	73·9	54·0	63·4	+ 4·0	150	0	2	0·42	− 0·11	*	*	*	*
	Loughborough	85	52	73·9	55·9	64·4	+ 3·7	157	0	3	0·03	− 0·51	*	*	*	*
	Colly Weston (Stamford)	87	50	74·1	54·0	63·5	+ 3·4	151	0	1	0·01	?	*	*	*	*
	Cheadle Ⓜ	77	51	68·1	53·7	60·5	+ 3·1	130	0	3	0·06	− 0·72	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	78	51	69·6	54·3	61·5	+ 2·3	137	0	2	0·15	− 0·47	39·0	?	37	?
	Churchstoke Ⓜ	76	50	68·7	54·4	61·1	+ 3·3	134	0	4	0·13	− 0·45	35·1	− 4·1	33	− 4
	Hereford (Belmont) Ⓜ	76	49	71·4	55·5	63·0	+ 3·0	147	0	3	0·27	− 0·27	*	*	*	*
	Cirencester	78	48	70·3	53·4	61·3	+ 2·6	135	0	0	—	− 0·68	40·3	− 1·8	38	− 3
	Oxford	80	52	73·4	55·4	63·9	+ 3·3	153	0	1	0·10	− 0·43	41·6	− 1·0	40	− 1
5. ENGLAND, S.	London	85	51	76·1	55·4	65·1	+ 3·9	162	0	3	0·08	− 0·44	45·5†	+ 5·8†	43†	+ 4†
	Swarraton (Alresford) Ⓜ	79	44	71·4	52·2	61·2	+ 2·1	134	0	2	0·11	− 0·51	*	*	*	*
	Dungeness	73	51	70·0	56·9	63·1	+ 1·5	148	0	1	0·06	− 0·34	44·3	?	43	?
	Hastings (St. Leonards)	78	52	71·0	55·3	62·7	+ 1·5	145	0	3	0·10	− 0·42	46·1	− 2·9	44	− 4
	Southampton	78	50	73·5	55·4	64·3	+ 2·3	156	0	2	0·34	− 0·26	47·4	− 0·2	46	− 1
	Portland Bill	68	55	65·4	58·1	61·5	+ 0·8	137	0	2	0·05	?	*	*	*	*
	Shaftesbury Ⓜ	75	48	69·3	53·8	61·1	+ 1·7	134	0	2	0·39	− 0·25	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	67	45	61·6	52·0	56·5	− 0·6	102	0	7	2·76	+ 1·54	*	*	*	*
	Glasgow	69	51	62·6	54·4	58·3	+ 1·6	114	0	7	1·03	+ 0·16	15·0	−14·8	14	−14
	Glenlee Ⓢ	64	51	63·6	54·6	58·8	+ 2·1	118	0	7	1·16	+ 0·14	*	*	*	*
	Douglas (Isle of Man)	67	53	63·7	55·0	59·1	+ 2·0	120	0	5	0·10	− 0·71	18·8	−21·6	18	−20
7. ENGLAND, N.W.	Newton Reigny	70	50	65·4	53·3	59·0	+ 2·4	119	0	6	1·25	?	16·0	?	15	?
	Stonyhurst	72	52	64·8	55·9	60·1	+ 2·0	127	0	6	1·11	+ 0·01	15·2	−19·8	14	−19
	Blackpool Ⓜ	70	54	64·8	55·9	60·1	+ 0·8	127	0	4	0·49	− 0·26	18·4	−18·2	17	−18
	Manchester (Prestwich)	77	53	67·0	56·1	61·2	+ 2·7	134	0	5	0·25	− 0·59	13·9	?	13	?
	Liverpool Obsy. (Bidston)	73	54	66·3	57·1	61·4	+ 1·7	136	0	3	0·28	− 0·37	14·1	?	13	?
	Chester (Hawarden Bridge)	77	56	68·7	58·6	63·4	+ 3·5	150	0	3	0·09	?	*	*	*	*
	Llandudno Ⓜ	72	53	66·1	57·1	61·3	+ 1·4	135	0	5	1·89	+ 1·27	15·5	−22·4	15	−21
	Holyhead	66	53	62·6	55·1	58·6	− 0·3	116	0	3	0·12	− 0·53	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	51	68·0	55·1	61·2	+ 2·1	134	0	4	0·55	− 0·45	*	*	*	*
	Pembroke	64	54	62·4	56·1	59·2	0·0	120	0	2	1·06	+ 0·43	25·5	−19·1	24	−19
	Clifton												*	*	*	*
	Bath	78	48	70·0	54·9	62·0	+ 0·8	140	0	3	0·22	?	37·9	?	36	?
	Arlington (N. Devon)	73	48	64·6	51·7	57·8	− 0·6	111	0	5	0·86	− 0·23	*	*	*	*
	Cullompton Ⓜ	78	45	70·6	52·5	61·0	+ 0·3	133	0	4	0·15	− 0·50	33.7	− 8·3	32	− 9
	Falmouth	72	53	66·4	54·9	60·3	+ 0·2	128	0	5	0·19	− 0·59	38·1	−10·8	37	−11
	Plymouth	74	50	67·3	55·1	60·8	− 0·3	132	0	4	0·09	− 0·56	35·5	− 9·7	34	−10
9. IRELAND, N.	Malin Head	64	52	60·0	53·9	56·8	− 0·9	104	0	7	1·81	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	65	50	61·3	54·0	57·4	+ 0·9	108	0	6	1·45	+ 0·60	*	*	*	*
	Blacksod Point	61	49	59·7	55·6	57·5	− 0·3	109	0	7	1·22	?	*	*	*	*
	Markree Castle	66	50	61·9	54·2	57·8	+ 1·0	111	0	6	1·51	+ 0·61	5·9	−23·7	6	−22
	Armagh	69	51	64·4	55·0	59·4	+ 1·9	122	0	6	2·10	+ 1·36	9·6	−19·4	9	−19
	Donaghadee	68	51	63·7	54·4	58·8	+ 1·4	118	0	5	0·93	+ 0·19	*	*	*	*
10. IRELAND, S	Dublin	77	51	69·1	57·0	62·7	+ 3·2	145	0	4	1·44	+ 0·76	23·0	−14·0	22	−13
	Parsonstown	74	53	65·3	55·7	60·2	+ 1·9	127	0	4	0·85	+ 0·01	14·7	−17·1	14	−16
	Kilkenny	76	52	67·4	55·9	61·3	+ 2·4	135	0	3	1·27	+ 0·52	*	*	*	*
	Roche's Point	71	54	66·6	55·6	60·8	+ 1·3	132	0	1	0·62	− 0·21	*	*	*	*
	Valencia	66	51	62·4	56·3	59·2	+ 0·2	120	0	6	0·77	− 0·31	21·0	−13·8	20	−14
	Killarney	73	52	68·2	56·5	62·0	+ 2·9	140	0	4	0·57	− 0·44	*	*	*	*
	Foynes	70	52	64·8	55.8	60·0	+ 1·7	126	0	3	0·43	− 0·46	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	72	57	66·4	58·0	62·0	+ 1·3	140	0	3	0·63	+ 0·07	30·5	?	30	?
	Jersey	82	54	69·3	57·4	63·0	+ 0·3	147	0	3	0·45	− 0·09	50·6	− 4·8	49	− 5

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

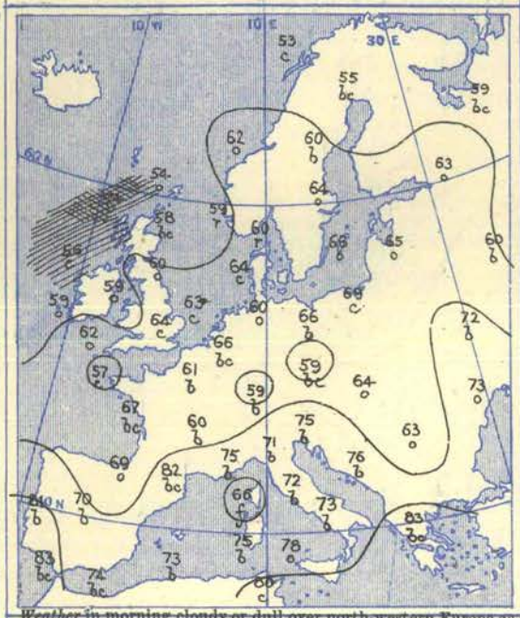
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 4th August.

Temperature and Weather.

8 a.m.

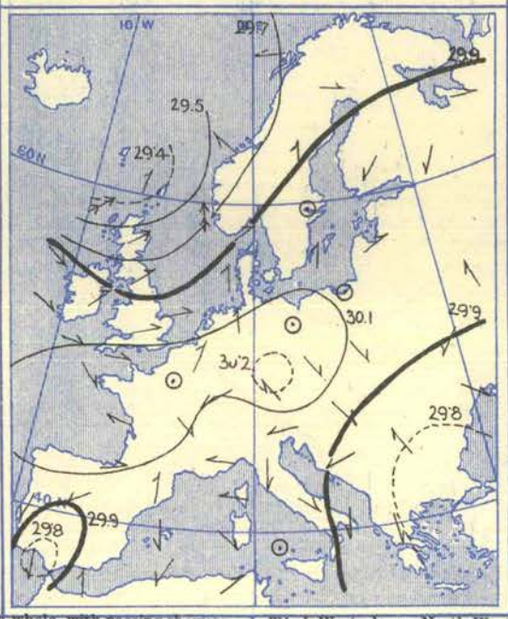


Weather in morning cloudy or dull over north-western Europe as a whole, with passing showers at Malin Head and rain at Pembroke as well as at Skudesnaes; fine in the east of Scotland. Fine over the eastern, central and southern parts of the Continent generally, but dull in Austria. Slight rain falling later in many parts of the United Kingdom and somewhat larger amounts in Scandinavia; thunderstorms occurring in the vicinity of Nice and also at La Calle.

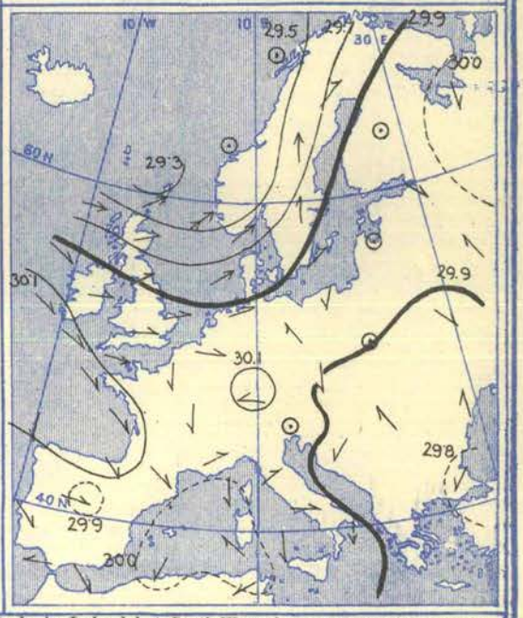
Temperature changed slightly and irregularly. Morning readings highest, 83° at San Fernando, Athens and Patras, 81° at Lisbon, 80° at Palma and Sfax; above 70° over southern and eastern Europe generally, and above 65° at some of the Baltic stations. Lowest, (1) 53° at Bodö and 55° at Haparanda; (2) 54° at Sumburgh Head, Stornoway and Wick. Rising during day to between 65° and 70° in most parts of Great Britain and the south of Ireland, and reaching 71° at Spurn Head and Loughborough; exceeding 80° in France and Austria, and exceeding 90° at several of the Spanish and Italian stations, the highest readings reported being 95° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



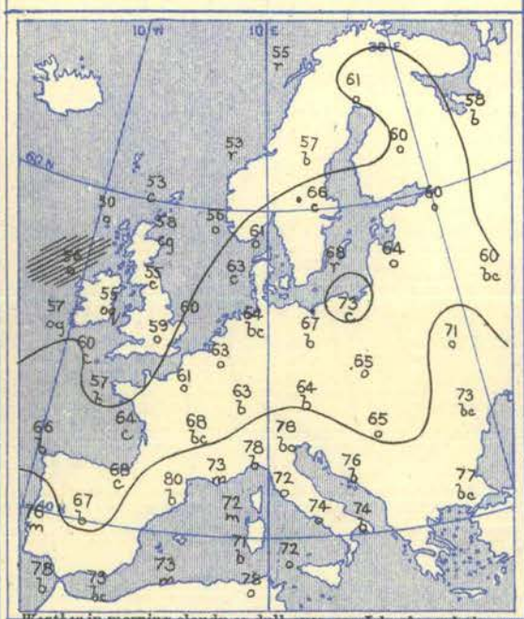
Wind Westerly or North-Westerly in Ireland but South-Westerly over Great Britain and the adjacent parts of the Continent (strong to a gale in force on our own extreme north-west coast); Southerly in Denmark and the south of Scandinavia; South-Easterly or Easterly in the west of Norway. Variable over France, Germany and Italy; North-Easterly or Northerly over the Spanish Peninsula. Subsequently veering to the Westward or North-Westward over Great Britain and to the South-Westward on the eastern shores of the North Sea and increasing to a gale at Skudesnaes.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the Bay of Biscay and the greater part of France and Germany. Lowest, 29·4 ins. and less in a depression off the north of Scotland; 29·8 ins. and less in a shallow disturbance over the extreme south of Spain. Northern depression subsequently moving slowly eastwards; Spanish disturbance entirely disappearing.

Monday, 5th August.

Temperature and Weather.

8 a.m.

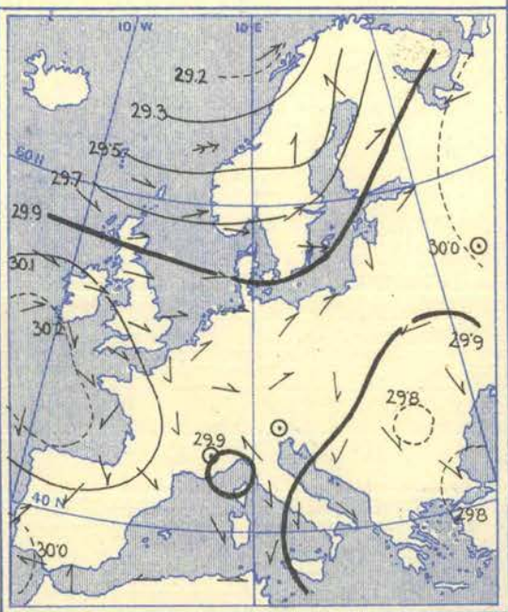


Weather in morning cloudy or dull over our Islands and the northern parts of the Continent, with showers in the north of Ireland and steady rain in the west of Norway, as well as at Wisby. Fine over central and southern Europe generally, but dull in Austria. Rain falling later in nearly all parts of the United Kingdom, and also in the west and north of Scandinavia.

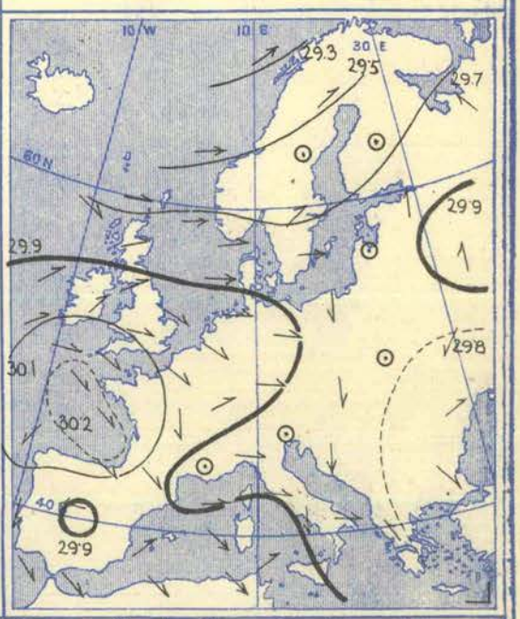
Temperature fallen in most countries, but risen in Germany, Austria, and the south of Russia. Morning readings highest, 82° at Sfax, 80° at Barcelona, and 78° at Trieste and Leghorn; above 70° in most parts of southern and eastern Europe, and above 65° over north Germany and the Baltic. Lowest, 50° at Stornoway, 53° at Christiansund and Sumburgh Head, and 54° at Newton Reigny (Penrith). Daily maxima over our Islands mostly at or below 65°, but thermometer reaching 68° in London and 71° at Dungeness. Exceeding 70° in Sweden and Germany, and exceeding 80° over southern Europe generally. the highest readings reported being 95° at San Fernando and 90° at Florence.

Barometer and Wind.

8 a.m.



6 p.m.



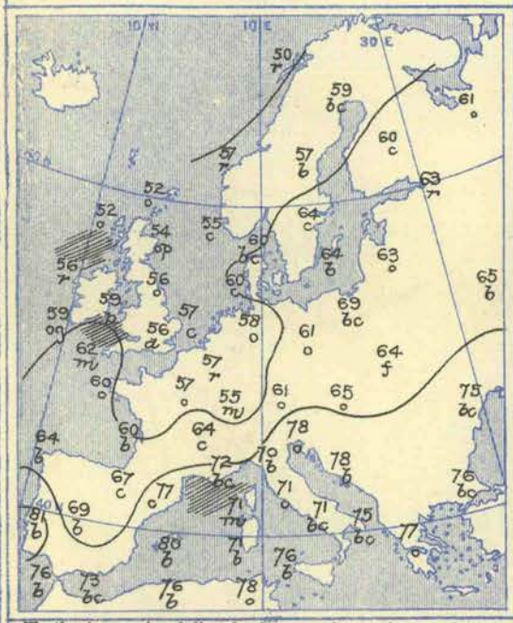
Wind Westerly or North-Westerly over north-western Europe as a whole, and strong in force over some of the more exposed parts of our own north and north-west coasts; strong to a gale from the South-Westward in Scandinavia. Light from the Northward over France, Italy and Austria, and from the North-Eastward or Eastward over the Spanish Peninsula. Subsequently backing to the South-Westward at many of our own western and northern stations, and to the North-Westward in France.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay and the extreme south of Ireland; 30·0 ins. and upwards in another system over northern and central Russia. Lowest, 29·2 ins. and less in a well-marked depression off the north-west of Norway; 29·8 ins. and less in a shallow area over Asia Minor. Norwegian depression subsequently travelling north-eastwards, but new disturbances beginning to approach our own western coasts in evening.

Tuesday, 6th August.

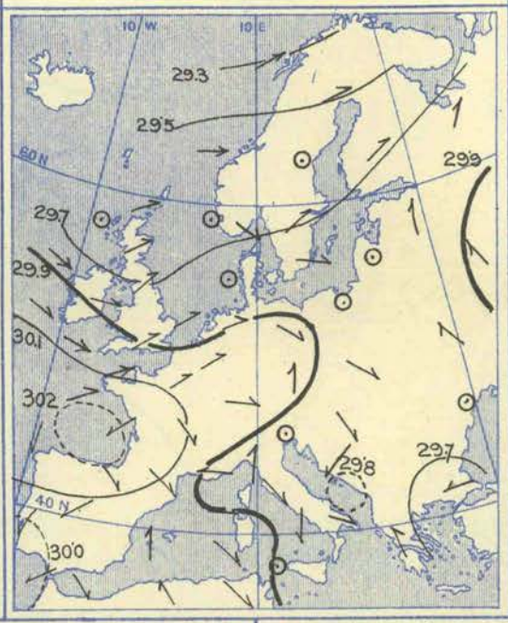
Temperature and Weather.

8 a.m.

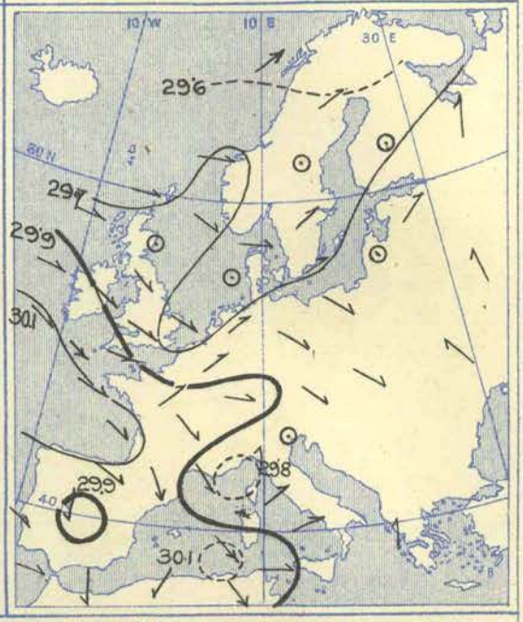


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over the northern and eastern parts of Great Britain and also in Belgium and the north of France; fine at many of our south-western stations. Fine over the greater part of the Continent, but dull in Germany and Austria and rainy in the west of Norway. Slight rain falling later in many parts of the United Kingdom and larger quantities at several of the Continental stations, thunder occurring at Brussels.

Temperature fallen over Europe generally but risen in the west of our Islands and also over Russia. Morning readings highest, 81° at Lisbon, 80° at Palma and 78° at Trieste, Lesina, and La Calle; above 70° in many parts of southern Europe, and above 65° over Austria and northern and eastern Germany. Lowest, 50° at Bödö, 51° at Christiansund, and 52° at Sumburgh Head and Stornoway; below 55° over north Britain generally. Daily maxima below 60° in Scotland and the north of Ireland, but thermometer exceeding 65° in most other parts of our Islands, and reaching 73° in London. Exceeding 70° also in Sweden and exceeding 80° over southern Europe, the highest readings reported being 100° at Madrid and 95° at Oporto.

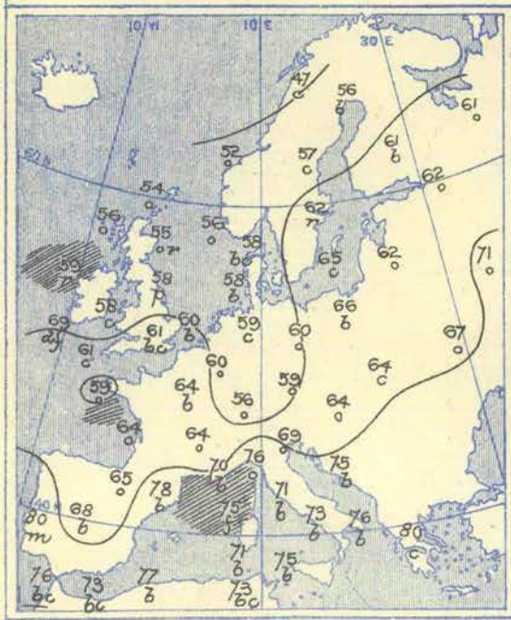
Wind light from the South-Westward over all the more northern and eastern parts of Great Britain as well as in the Netherlands and the north of France; fresh from the Westward or North-Westward on all our more western coasts. South-Westerly in Scandinavia and Southerly over northern Russia, but Westerly or North-Westerly over Denmark, northern and eastern Germany, and Austria. Variable in Italy; North-Westerly in the south of France, Northerly or North-Easterly over the Spanish Peninsula and the south-west of France. Subsequently veering to the Westward or North-Westward in all parts of England and blowing strongly at some of the coast stations.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay and the north of Spain. Lowest, 29·4 ins. and less in the north of Scandinavia; 29·7 ins. and less in a shallow depression over Asia Minor, large "V"-shaped disturbance moving steadily eastwards across our Islands during day; two other depressions forming respectively over the south of Spain and over the Mediterranean, just outside the French coast.

Wednesday, 7th August.

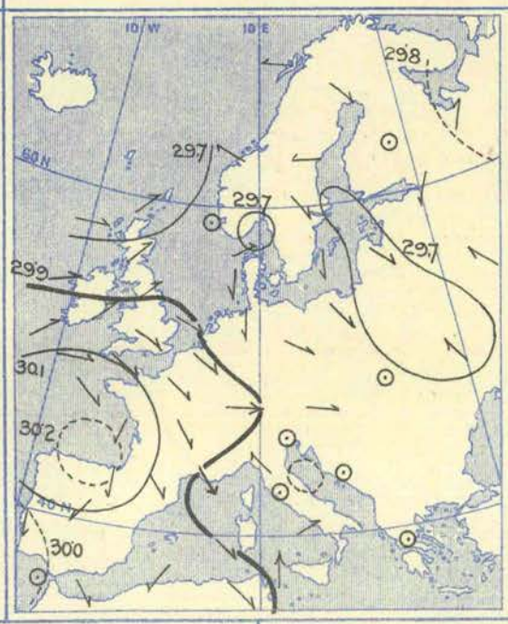
Temperature and Weather.

8 a.m.

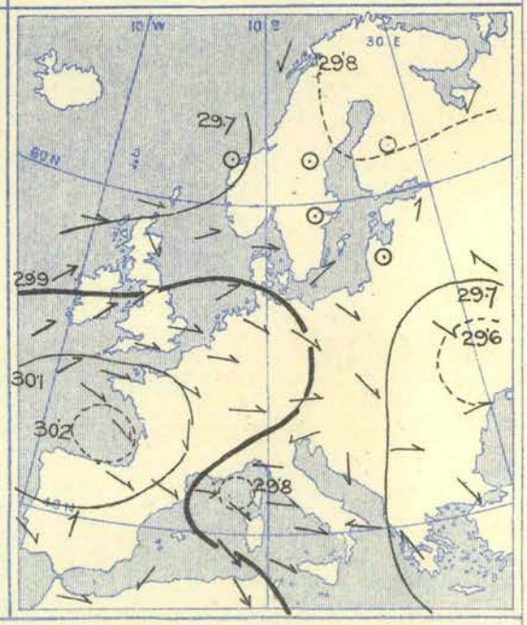


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over Ireland and the northern parts of Great Britain with rain in several places. Fine at most of the English stations as well as over southern Europe generally and the northern parts of Finland and Scandinavia. Dull over the Netherlands, France, Germany and Austria, with rain at Frankfürt and the Helder. Slight rain falling in the west and north of our Islands and larger quantities in many parts of Germany and Austria—as much as 0·9 in. at Hermanstadt; thunderstorm occurring at St. Petersburg.

Temperature risen over western and southern Europe but fallen in other regions. Morning readings highest, 80° at Lisbon and Patras, 78° at Athens and Barcelona and 77° at Algiers; above 70° in most of the southern countries and above 65° at some of the Baltic stations. Lowest, 47° at Bodö, 52° at Christiansund, 54° at Sumburgh Head and 55° at Aberdeen. Rising during day to 70° and upwards in many parts of England and France, and to 77° in London; exceeding 80° over Spain, Italy and the south of France, and reaching 100° at Madrid and 91° at Palermo.

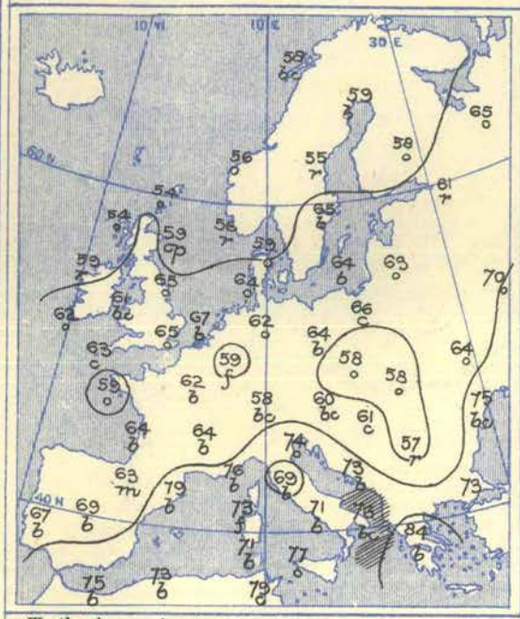
Wind light to moderate from the South-Westward over Ireland and the northern parts of Great Britain; light from the North-Westward or Northward over the south of England, the Netherlands, Denmark, Germany, and the greater part of France; Easterly or South-Easterly in the north of Scandinavia. Variable over Italy, the Mediterranean, and the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·2 ins. and upward to 30·1 ins. in an anticyclone over the Bay of Biscay and the west of France. Lowest, 29·6 ins. and less in a depression off the north of Scotland; 29·7 ins. and less in three other systems lying respectively over the south of Norway, the west and south of Russia and the northern part of the Adriatic. No decided change occurring later, but depression off our northern coasts moving away to the north-eastward.

Thursday, 8th August.

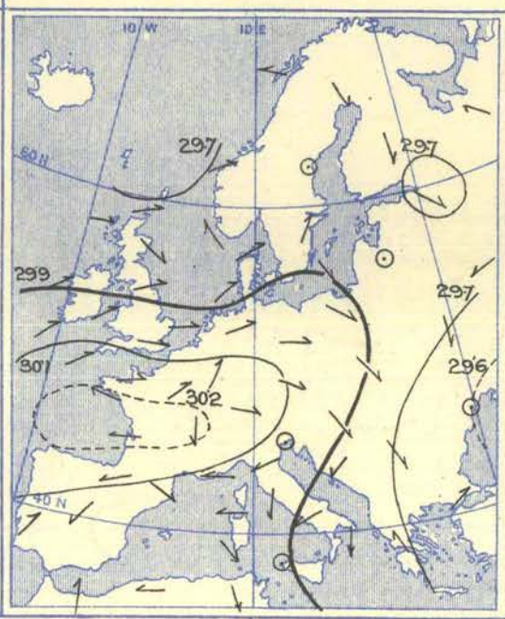
Temperature and Weather.

8 a.m.

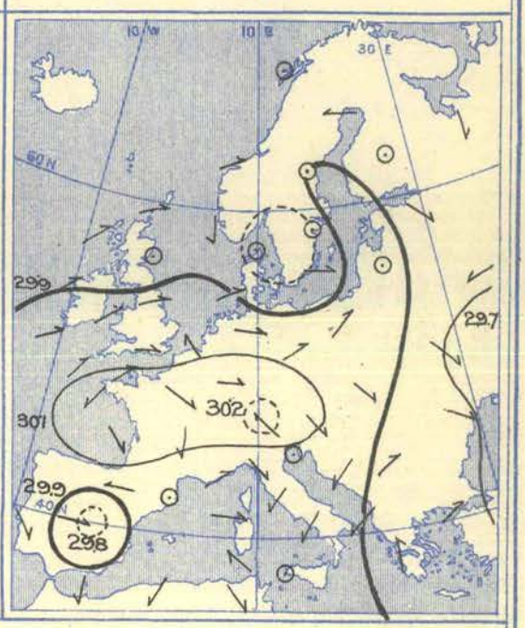


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England and the Continent, but dull at several of the Russian and Scandinavian stations, with rain at Skudesnaes, Hernösand and St. Petersburg. Cloudy or dull in the west and north of our Islands, with rain in several parts of Ireland, and passing showers at Aberdeen. Rain falling during the day over nearly the whole of Ireland and Scotland, as well as in Scandinavia, Denmark and Germany; a heavy fall (1·3 in.) occurring locally at Hermanstadt.

Temperature risen over Ireland and northern and central Europe. Morning readings highest, 84° at Patras, 80° at Athens, and 79° at Barcelona and La Calle; above 70° in most of the southern and eastern countries, and above 65° over eastern and central England. Lowest, 54° at Sumburgh Head and Stornoway, 55° at Hernösand, and 56° at Christiansund, Skudesnaes and Malin Head. Rising during day to 70° and upwards over England and the inland parts of Ireland and Scotland, and to 79° in London; exceeding 80° in France, and exceeding 90° in many parts of southern Europe, the highest readings of all being 104° at Madrid and 95° at Croisette.

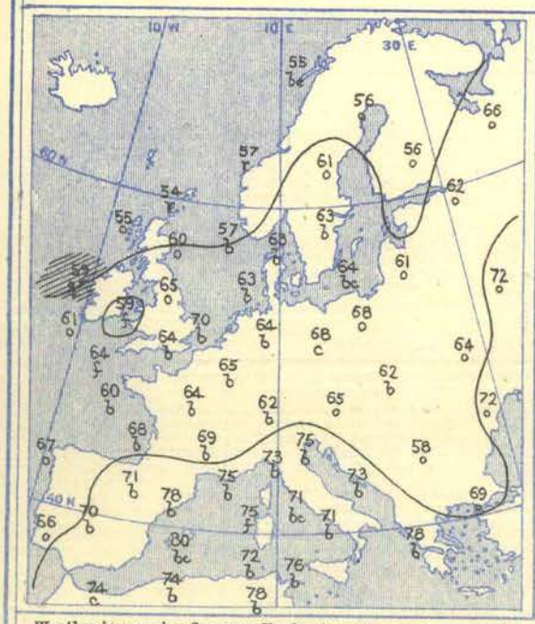
Wind light to moderate from the South-Westward or Westward over north-western Europe generally; Southerly in the south of Scandinavia; calm in the Gulf of Bothnia. Light from the North-Westward in Austria and eastern Germany; Easterly or North-Easterly over Spain, Italy, and the west and south of France; Southerly or South-Westerly in Portugal. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards to 30·1 ins. in an anticyclone lying over the English Channel, the Bay of Biscay, France and western Germany. Lowest, 29·6 ins. and less in a depression over the extreme south of Russia; 29·7 ins. and less in two shallow disturbances,—one lying over the north of Russia and the other off the west of Norway. Anticyclone subsequently moving slowly eastwards; well-marked depression appearing over Spain in evening.

Friday, 9th August.

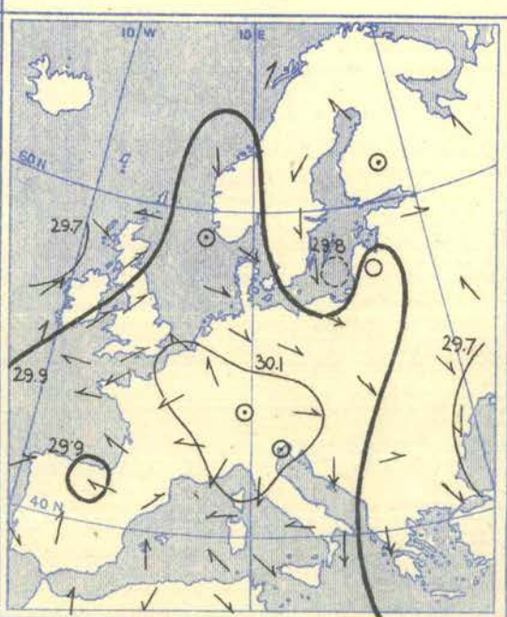
Temperature and Weather.

8 a.m.

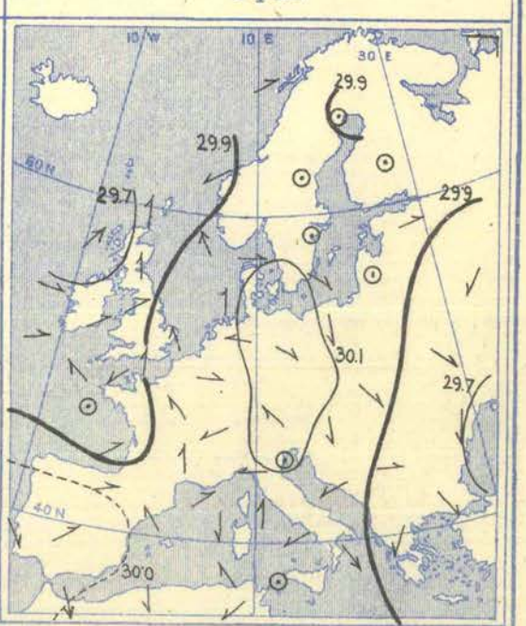


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England and the greater part of the Continent, but dull in Ireland and Scotland with rain in a few places. Dull also in Austria and eastern Germany, with rain at Memel and Breslau. Considerable quantities of rain falling later in Ireland and also in some parts of central and southern Russia; smaller amounts reported in the west and north of Scotland.

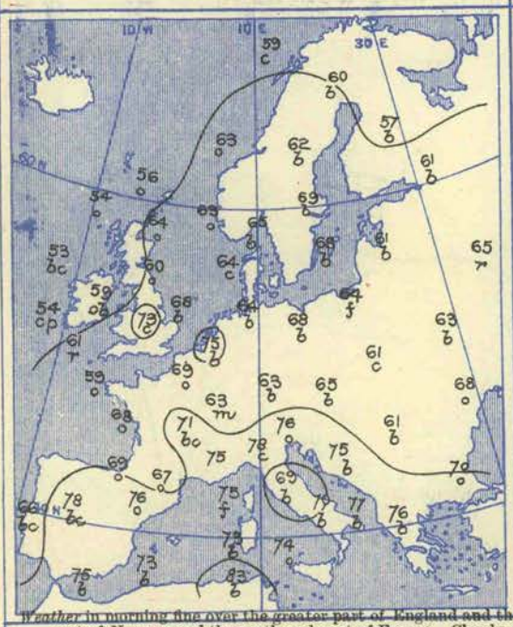
Temperature fallen a little over the southern parts of the United Kingdom, but risen elsewhere. Morning readings highest, 80° at Palma and 78° at Barcelona, Patras, and La Calle; above 70° in most parts of southern Europe, and touching that level at Yarmouth; above 65° in several parts of England, and also in the south-east of Scotland. Lowest, 54° at Sumburgh Head, 55° at Stornoway and Bödö, and 56° at Wick. Rising during day to 80° and upwards at several of the English stations, and to 85° in London; exceeding the latter point in many parts of France and southern Europe and reaching 93° at Bordeaux.

Wind light to moderate from the Southward or South-Westward over the greater part of the United Kingdom, but Easterly over France and the western parts of the English Channel. Northerly in Scandinavia and North-Westerly over Denmark and eastern Germany, Westerly in Austria, Northerly over Greece, Italy, and the Adriatic, variable over the Spanish Peninsula. Subsequently shifting to the Southward in the south of Scandinavia, and to the South-Westward or Westward in the west of France; no decided change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards to 30·1 ins. in an anticyclone covering the Netherlands, the north-east of France, south Germany, Switzerland, and northern Italy. Lowest, 29·7 ins. and less in a depression off our own extreme north-west coasts, and also in a large area over the Black Sea and the south of Russia, 29·8 ins. and less in a small system over the northern part of the Baltic, 29·9 ins. and less in another small disturbance over the north-east of Spain. Depression off our north-west coasts subsequently moving northwards. Small disturbance over Spain advancing in a similar direction to the north-west of France.

Saturday, 10th August.

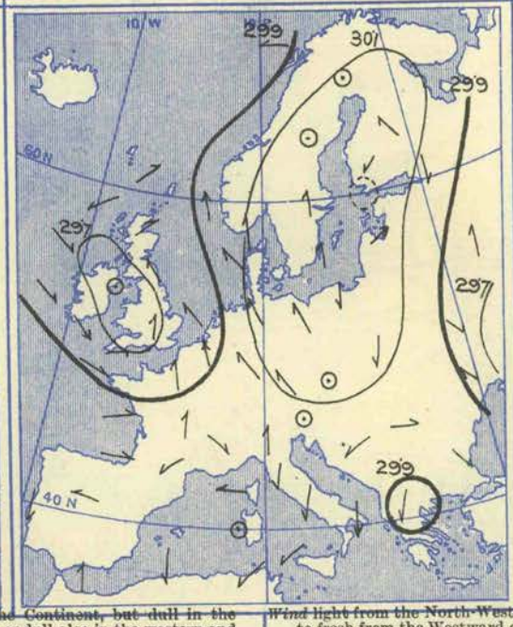
Temperature and Weather. 8 a.m.

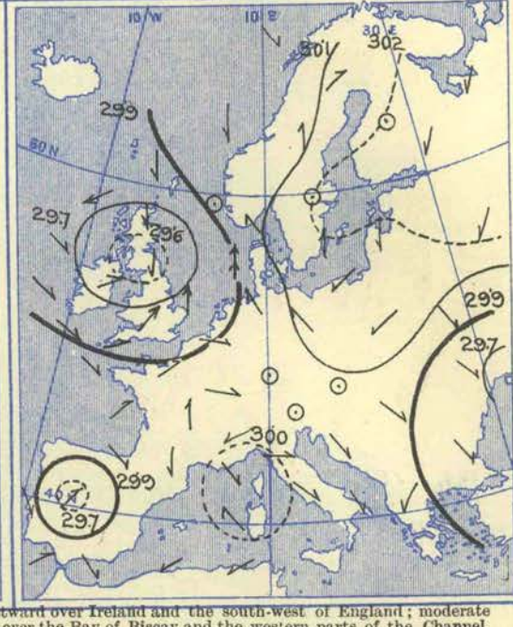


Weather in morning fine over the greater part of England and the Continent, but dull in the west of Norway and the north and west of France. Cloudy or dull also in the western and northern parts of the United Kingdom, with rain in several places, thunder at Holyhead, and lightning at Roche's Point. Thunderstorms and heavy rain occuring later in many parts of the United Kingdom, as much as 2·0 ins. of rain at Caistor, Lincolnshire (in 2 hours), 1·8 ins. at Leith, and 1·5 ins. at Aberdeen. Thunderstorms occurring also over western and central France.

Temperature risen generally, but fallen over Ireland and the north of England. Morning readings highest, 83° at La Calle, 81° at Sfax, and 78° at Genoa and Madrid; above 70° at the Mediterranean and Adriatic stations generally, and also over the inland parts of the south of England; above 65° over north Germany, the Baltic and the south of Sweden. Lowest, 53° at Blacksod Point, and 54° at Stornoway, Parsonstown and Valentia (Ireland). Rising during day to 75° and upwards over the south and east of England generally, and to 85° at Loughborough, exceeding 85° in many parts of southern Europe, and reaching 95° at Florence

Barometer and Wind. 8 a.m. 6 p.m.





Wind light from the North-Westward over Ireland and the south-west of England; moderate to fresh from the Westward over the Bay of Biscay and the western parts of the Channel. South-Easterly over Germany, Denmark, the Netherlands, and the eastern and central parts of England; Easterly in Scotland; calm in the northern parts of Scandinavia. Northerly or North-Westerly over Italy, Greece, and the south of Russia; Easterly to Northerly over the Spanish Peninsula.

Barometer. Highest, 30·1 ins. and upwards in an anticyclone lying over Finland, Sweden, the Baltic and Germany. Lowest, 29·7 ins. and less in a well-marked depression over England and the east of Ireland, and also in another disturbance over the south of Russia. Depression over our Islands subsequently moving northwards, but new disturbance appearing over central Spain.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country

GENERAL NOTES.

During the earlier half of the week barometrical pressure was highest in an anticyclone, whose central area lay, as a rule, over the Bay of Biscay, the borders of the system extending, however, over a considerable portion of France, and occasionally over Germany and the southern parts of the United Kingdom. Over England and the western, central and southern parts of the Continent, the weather was, therefore, fine and warm, the wind being rather variable, but mostly from points between West and North. In Ireland, Scotland and Scandinavia, the conditions were affected by depressions moving in a north-easterly direction over the northern parts of the Atlantic, the passage of these systems being attended, in many cases, by a considerable freshening of the wind from South-West and West, and by rather frequent, though not heavy, falls of rain.

After the 8th the anticyclone moved eastwards to central Europe, and subsequently spread over the northern countries, a decided improvement in the weather now taking place over Scandinavia. In the west and north of our Islands the conditions were still subject to depressions moving out in the Atlantic, and at the close of the week a well-marked secondary disturbance, which was developed over Brittany during the after part of the 9th, advanced northwards over Great Britain and occasioned unsettled thundery weather in all but the south-eastern portions of the United Kingdom. In Scotland and the north of England the thunderstorms of the 10th were accompanied in many instances by exceedingly heavy falls of rain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	18·5	- 9·7	17	- 9	BRIGHTON	51·0	+ 1·1	49	0
STRATHPEFFER SPA					WORTHING	52·2	?	50	?
EDINBURGH	19·5	-13·3	18	-13	BOGNOR	53·7*	?	52*	?
MORPETH	26·3	?	25	?	WATERGATE (Emsworth)	46·1	?	44	?
NEWCASTLE-ON-TYNE	23·3	?	22	?	WESTBOURNE (Emsworth)	52·5*	+ 4·5	50*	+ 3
OSWALDKIRK (Yorkshire)	25·9	- 6·6	24	- 7	VENTNOR HOSPITAL	47·4	+ 0·4	46	0
YORK					BOURNEMOUTH	55·0	?	53	?
LOWESTOFT	38·5	?	37	?	SOUTHPORT	16·1	?	15	?
HOLLESLEY BAY	49·4	?	47	?	RHYL	44·7*	?	42*	?
SHEFFIELD	40·1	?	38	?	COLWYN BAY		?		?
WORKSOP	33·3	- 0·7	31	- 2	ABERDOVEY	22·1*	?	21*	?
THURCASTON (Leicestershire)	37·3	- 0·6	35	- 1	TENBY	36·4	- 8·4	35	- 8
MARGATE	45·0	+ 2·0	43	+ 1	NEWQUAY	25·0	-22·3	24	-22
BROADSTAIRS	46·1	?	44	?	TORQUAY	50·2	+ 2·0	49	+ 2
EASTBOURNE	45·0	- 3·0	43	- 4	CAHIR (Duneske)	31·9*	?	30*	?
					GUERNSEY	50·5*	- 5·3	49*	- 6

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—In last week's report the Sunshine values for the first five stations shown in the right-hand portion of the table on p. 186 refer respectively to Brighton (name omitted), Worthing, Bognor, Watergate, and Westbourne. The values for Ventnor were not received.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 33.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 17TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 194.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	44	64·1	51·6	57·4	3 above	108	+18	0	0	1564	+245	561	- 1
	1. SCOTLAND, EAST	72	37	65·1	59·9	57·0	1 below	105	+ 2	0	0	1696	+105	657	+45
	2. ENGLAND, N.E.	73	44	66·9	52·2	59·1	1 above	120	+ 5	0	0	1856	+146	516	+ 9
	3. ENGLAND, EAST	77	46	70·1	53·3	61·2	1 below	133	+ 6	0	0	2024	+ 27	560	+ 8
	4. MIDLAND COUNTIES	79	43	67·1	51·8	59·1	0 (average)	120	- 3	0	0	2082	+ 81	591	+32
	5. ENGLAND, SOUTH	73	43	67·8	54·3	60·6	0 (average)	130	- 6	0	0	2119	- 53	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	45	63·1	51·0	56·7	0 (average)	103	- 3	0	0	1796	+ 99	470	+36
	7. ENGLAND, N.W.	70	46	64·3	52·8	58·2	1 below	113	- 5	0	0	1940	+ 99	453	+44
	8. ENGLAND, S.W.	72	40	64·8	52·1	58·0	2 ,,	112	-12	0	0	2107	+ 84	369	+51
	9. IRELAND, NORTH	70	44	63·5	51·4	57·1	0 (average)	106	- 3	0	0	1770*	- 30	374	+11
	10. IRELAND, SOUTH	74	41	64·9	52·0	58·0	1 below	112	- 6	0	0	2040	- 17	325	+63
	—CHANNEL ISLANDS	72	53	65·8	56·7	61·0	1 ,,	133	- 6	0	0	2349	+ 46	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 194.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	9	0 (average)	142	+ 3	23·9	- 4·1	36	+10	34	+10	937	+105	30	+ 3
	1. SCOTLAND, EAST	5	10	3 more	120	+ 1	17·2	- 1·2	40	+ 6	38	+ 5	1072	+121	35	+ 4
	2. ENGLAND, N.E.	4	6	0 (average)	107	- 4	13·0	- 1·9	38	+ 5	37	+ 4	1120	+161	36	+ 5
	3. ENGLAND, EAST	3	6	0 (average)	101	-11	11·5	- 3·2	55	+ 9	53	+ 8	1306	+126	41	+ 4
	4. MIDLAND COUNTIES	5	8	2 more	100	- 7	16·3	- 0·1	39	+ 1	38	+ 1	1100	+117	37	+ 4
	5. ENGLAND, SOUTH	4	11	5 more	92	-12	14·5	- 1·4	50	+ 3	49	+ 3	1333	+145	44	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	22	11 more	123	- 6	26·4	- 3·2	39	+ 5	38	+ 5	1132	+132	37	+ 4
	7. ENGLAND, N.W.	6	11	3 more	113	- 3	15·7	- 3·7	37	+ 2	36	+ 2	1224	+180	39	+ 6
	8. ENGLAND, S.W.	5	16	8 more	101	-19	21·0	- 1·9	36	-10	35	-10	1280	+ 78	43	+ 3
	9. IRELAND, NORTH	6	11	3 more	138	- 1	20·3	- 0·7	34	+ 5	33	+ 5	967	+ 49	32	+ 2
	10. IRELAND, SOUTH	6	14	5 more	112	-15	20·2	- 3·7	36	+ 1	35	+ 1	1073	+ 35	35	+ 1
	— CHANNEL ISLANDS	4	10	4 more	119	- 1	18·1*	+ 0·3	47	- 2	47	- 3	1380	+ 7	46	0

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was unsettled over the whole Kingdom, but rain was less frequent in the south and east than elsewhere. Thunderstorms were experienced at many of our more northern and north-eastern stations on Sunday or Monday, and again in some eastern and southern localities on Thursday. At several of our western and southern stations the rain was very heavy about the middle of the week.

Temperature differed very little from the mean generally, but was 3° above it in Scotland N. and 2° below it in England S.W. The highest of the maxima were recorded on rather irregular dates, and ranged from 79° in the Midland counties and 77° in England E. to 70° in England N.W. and Ireland N. and to 68° in Scotland W. The lowest of the minima, which were mostly recorded either during the early or latter days of the period, ranged from 37° in Scotland E., 40° in England S.W. and 41° in Ireland S. to 46° in England E. and N.W. and to 53° in the Channel Islands.

Rainfall was considerably more than the mean generally, but only just equal to it in Scotland N. and England N.E. and E. The fall on our southern coasts on the 14th was very heavy ; more than an inch was measured in several places, and as much as 1·44 ins. at Southampton and 1·65 ins. at Portland Bill.

Bright Sunshine was rather in excess of the mean over the country generally, but deficient in England S.W. and the Channel Islands. The percentage of the possible duration ranged from 53 in England E., 49 in England S., and 47 in the Channel Islands to between 33 and 37 in most of the western and northern districts.

Barometer and Wind. During nearly the whole of the period the distribution of pressure was of a southerly or south-westerly type, depressions from the Atlantic moving northwards or north-eastwards along our western and north-western coasts, and occasionally spreading eastwards over the entire Kingdom. At the commencement of the period there was an almost complete circulation of fresh or strong cyclonic winds in the North-West, but the Southerly and South-Westerly breezes subsequently experienced were chiefly of moderate strength, although they sometimes blew strongly on our more western coasts.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°		°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	62	45	60·1	51·0	55·2	+ 2·3	92	0	5	1·19	+ 0·47	*	*	*	*
	Stornoway	66	48	64·6	50·3	57·0	+ 2·6	105	0	3	0·37	− 0·45	43·9	+14·2	41	+13
	Wick	64	50	61·7	52·7	56·9	+ 2·2	104	0	5	0·78	+ 0·19	*	*	*	*
	Lairg 𝔖	71	44	67·0	49·6	57·8	+ 3·3	111	0	4	0·35	− 0·28	*	*	*	*
	Glencarron 𝔖	68	47	64·3	51·9	57·7	+ 3·0	110	0	5	1·48	− 0·02	*	*	*	*
	Fort Augustus 𝔖	70	48	66·4	52·6	59·1	+ 2·6	120	0	5	1·07	+ 0·33	33·5	+13·3	32	+13
	Fort William 𝔖	69	46	64·4	53·0	58·4	+ 1·4	115	0	6	1·09	− 0·23	27·6	+ 4·6	26	+ 4
1. SCOTLAND, E.	Nairn	71	46	67·3	50·4	58·3	+ 1·8	114	0	5	0·46	− 0·16	*	*	*	*
	Aberdeen	65	44	63·0	53·4	57·9	+ 1·4	111	0	5	1·10	+ 0·42	42·9	+ 8·2	40	+ 7
	Braemar 𝔖	65	37	61·4	47·7	54·1	+ 0·6	85	0	7	1·34	+ 0·51	*	*	*	*
	Ochtertyre 𝔖	69	42	66·0	50·6	57·8	+ 0·7	111	0	6	1·75	+ 0·90	*	*	*	*
	Leith	72	47	67·3	51·6	59·0	+ 0·7	119	0	4	0·68	+ 0·08	*	*	*	*
	Marchmont 𝔖	69	39	65·4	45·9	55·1	− 0·9	92	0	4	0·66	− 0·12	44·0	+ 9·0	42	+ 8
2. ENGLAND, N.E.	Alnwick Castle	71	44	66·5	49·0	57·2	+ 0·3	106	0	4	0·67	− 0·03	*	*	*	*
	Durham	68	45	64·9	51·1	57·6	− 0·5	109	0	4	0·58	− 0·05	42·8	+ 9·4	41	+ 9
	Shields	68	49	65·6	52·3	58·6	+ 1·1	116	0	4	0·58	− 0·05	*	*	*	*
	Scarborough 𝔐	71	47	68·6	51·9	59·8	+ 1·4	125	0	6	0·54	− 0·08	41·0	?	40	?
	Spurn Head	73	53	67·7	56·0	61·5	+ 2·1	137	0	4	0·74	+ 0·32	*	*	*	*
	Fulbeck (Lincolnshire)	71	50	67·8	53·1	60·0	+ 0·7	126	0	3	0·62	+ 0·07	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	76	?	72·4	?	?	?	?	?	3	0·86	+ 0·24	40·4	0·0	40	0
	Yarmouth	68	52	67·3	55·0	60·8	+ 0·6	132	0	2	0·30	− 0·20	*	*	*	*
	Geldeston	77	48	72·6	52·0	61·7	+ 1·6	138	0	2	0·34	− 0·11	53·4	+10·1	52	+ 9
	Cambridge	75	46	72·6	52·0	61·7	+ 0·6	138	0	3	0·83	+ 0·29	55·1	+12·8	54	+12
	Felixstowe	72	53	69·1	55·8	62·1	+ 2·0	141	0	3	0·60	?	60·3†	?†	59†	?†
	Rothamsted	71	46	68·8	51·7	59·7	− 0·1	124	0	4	0·52	− 0·05	53·3	+10·3	52	+ 9
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	47	69·3	51·9	60·1	+ 0·7	127	0	4	0·70	+ 0·15	*	*	*	*
	Loughborough	71	48	68·1	52·6	59·9	− 0·7	125	0	4	0·67	+ 0·11	*	*	*	*
	Colly Weston (Stamford)	79	49	71·7	52·1	61·3	+ 1·5	135	0	5	0·58	?	*	*	*	*
	Cheadle 𝔐	66	46	63·4	50·5	56·6	− 0·8	102	0	6	1·14	+ 0·35	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	48	65·3	52·0	58·3	− 0·9	114	0	5	0·67	+ 0·04	33·9	?	33	?
	Churchstoke 𝔐															
	Hereford (Belmont) 𝔐	69	49	65·6	52·5	58·7	− 1·2	117	0	4	0·92	+ 0·38	*	*	*	*
	Cirencester	68	43	66·3	49·7	57·5	− 1·1	109	0	6	1·05	+ 0·35	43·0	+ 1·5	42	+ 1
	Oxford	69	49	67·4	53·4	60·0	− 0·6	126	0	4	1·02	+ 0·48	44·0	+ 2·0	43	+ 2
5. ENGLAND, S.	London	73	49	72·0	53·4	62·1	0·0	141	0	2	0·62	+ 0·10	47·5†	+ 8·5†	47†	+ 7†
	Swarraton (Alresford) 𝔐	70	43	67·2	51·0	58·6	− 0·3	116	0	4	1·23	+ 0·60	*	*	*	*
	Dungeness	70	50	68·6	55·7	61·8	+ 0·1	139	0	4	0·51	+ 0·09	52·3	?	52	?
	Hastings (St. Leonards)	70	52	68·0	55·6	61·4	0·0	136	0	3	0·31	− 0·22	55·2	+ 7·2	55	+ 7
	Southampton	73	51	69·2	54·7	61·5	− 0·5	137	0	3	1·66	+ 1·06	46·9	− 0·1	46	0
	Portland Bill	67	55	64·7	57·3	60·8	− 0·1	132	0	5	1·80	?	*	*	*	*
	Shaftesbury 𝔐	68	49	65·1	52·1	58·2	− 1·4	113	0	5	1·24	+ 0·60	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	47	63·9	52·3	57·8	+ 0·6	111	0	7	1·65	+ 0·40	*	*	*	*
	Glasgow	66	50	63·2	52·5	57·5	+ 0·6	109	0	6	1·65	+ 0·76	32·7	+ 3·5	31	+ 3
	Glenlee 𝔖	66	45	63·2	48·5	55·4	− 1·3	94	0	6	2·67	+ 1·59	*	*	*	*
	Douglas (Isle of Man)	66	46	62·2	50·5	56·0	− 1·1	98	0	6	2·69	+ 1·82	46·0	+ 7·0	45	+ 7
7. ENGLAND, N.W.	Newton Reigny	68	46	64·0	49·7	56·4	− 0·1	101	0	4	0·50	?	46·8	?	45	?
	Stonyhurst	64	49	61·9	52·4	56·9	− 1·2	104	0	6	0·81	− 0·35	37·9	+ 4·2	37	+ 4
	Blackpool 𝔐	70	50	65·3	53·1	58·8	− 0·4	118	0	7	1·79	+ 1·02	42·8	+ 7·6	42	+ 8
	Manchester (Prestwich)	69	49	64·7	51·9	57·9	− 0·6	111	0	6	0·68	− 0·20	38·6	?	37	?
	Liverpool Obsy. (Bidston)	68	49	64·9	53·4	58·8	− 0·9	118	0	6	1·13	+ 0·47	30·1	?	30	?
	Chester (Hawarden Bridge)	68	49	65·3	53·6	59·2	− 0·7	120	0	6	0·86	?	*	*	*	*
	Llandudno 𝔐	67	50	65·2	51·9	59·7	− 0·3	124	0	7	0·72	+ 0·08	29·4	− 7·5	29	− 7
	Holyhead	68	51	63·4	53·1	57·9	− 1·1	111	0	6	2·09	+ 1·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	44	66·1	50·1	57·6	− 1·6	109	0	6	1·36	+ 0·29	*	*	*	*
	Pembroke	64	53	61·9	54·9	58·2	− 1·2	113	0	6	2·58	+ 1·93	30·0	−14·0	29	−14
	Clifton												*	*	*	*
	Bath	69	47	67·1	51·1	58·6	− 2·5	116	0	3	0·57	?	43·9	?	43	?
	Arlington (N. Devon)	70	47	63·1	50·1	56·2	− 2·4	99	0	4	1·99	+ 0·92	*	*	*	*
	Cullompton 𝔐	72	40	67·1	49·3	57·7	− 2·3	110	0	5	1·15	+ 0·51	36·5	− 4·2	36	− 5
	Falmouth	66	51	63·9	53·7	58·5	− 1·8	116	0	5	1·47	+ 0·67	39·4	− 8·9	39	− 9
	Plymouth	69	51	64·3	54·9	59·3	− 1·9	121	0	4	1·92	+ 1·27	32·6	−12·2	32	−13
9. IRELAND, N.	Malin Head	66	50	61·4	52·4	56·6	− 1·1	102	0	5	0·70	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	70	47	64·6	49·9	56·8	+ 0·4	104	0	7	1·72	+ 0·87	*	*	*	*
	Blacksod Point	63	52	61·0	54·0	57·3	− 0·8	107	0	7	0·99	?	*	*	*	*
	Markree Castle	69	44	64·8	49·5	56·7	+ 0·1	103	0	7	1·18	+ 0·26	27·4	− 1·9	27	− 1
	Armagh	69	48	66·0	51·4	58·3	+ 0·9	114	0	6	1·27	+ 0·53	39·7	+11·2	39	+12
	Donaghadee	66	47	63·0	51·4	56·9	− 0·6	104	0	4	0·69	− 0·06	*	*	*	*
10. IRELAND, S	Dublin												39·6	+ 2·8	39	+ 3
	Parsonstown	72	46	67·0	51·4	58·7	+ 0·4	117	0	6	0·53	− 0·34	39·0	+ 7·4	38	+ 7
	Kilkenny	68	41	65·4	50·3	57·4	− 1·6	108	0	6	0·94	+ 0·15	*	*	*	*
	Roche's Point	66	45	62·4	52·1	56·9	− 2·7	104	0	5	2·27	+ 1·39	*	*	*	*
	Valencia	67	50	62·7	53·7	57·9	− 1·2	111	0	7	1·64	+ 0·54	27·1	− 7·4	27	− 7
	Killarney	73	44	65·7	51·8	58·3	− 0·7	114	0	6	1·82	+ 0·74	*	*	*	*
	Foynes	74	51	66·3	52·6	59·0	+ 0·5	119	0	6	0·94	− 0·01	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	53	63·9	55·9	59·7	− 1·3	124	0	5	0·91	+ 0·35	36·0	?	36	?
	Jersey	72	53	67·7	57·4	62·2	− 0·8	141	0	3	1·05	+ 0·50	53·6	− 1·7	54	− 1

Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

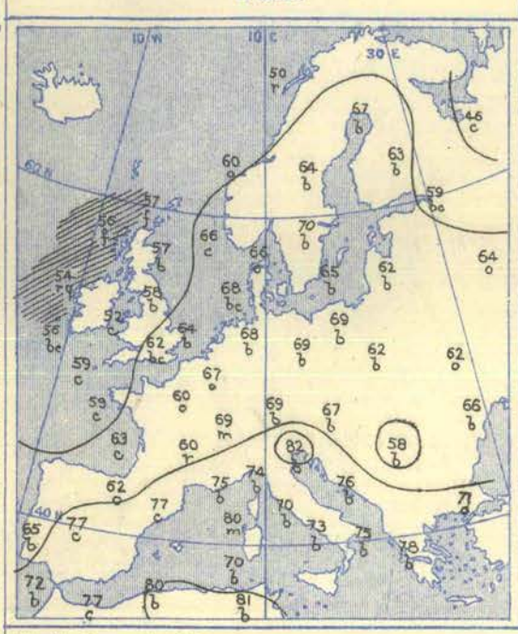
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

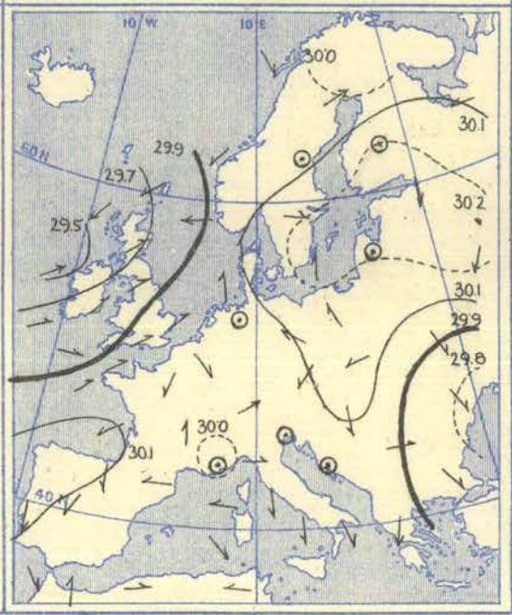
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 11th August.

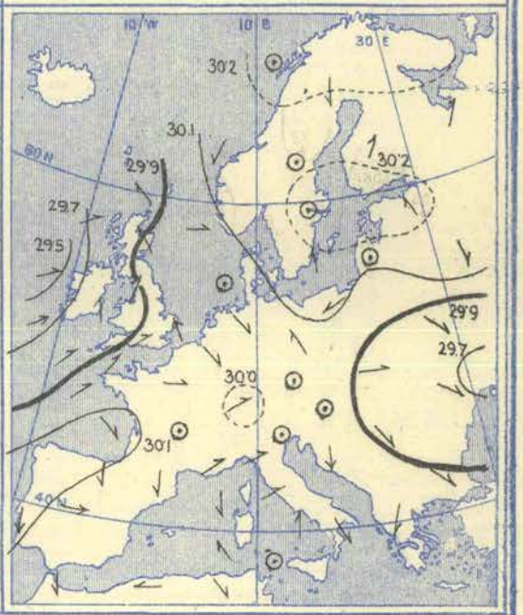
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western Europe generally, but rainy in the north-west of Ireland and also at Lyons; fog reported from the Shetlands and Hebrides. Slight rain later in several parts of our Islands and in larger quantities in Scandinavia and Denmark. Heavy rain fell at several southern French stations, where also thunderstorms occurred.

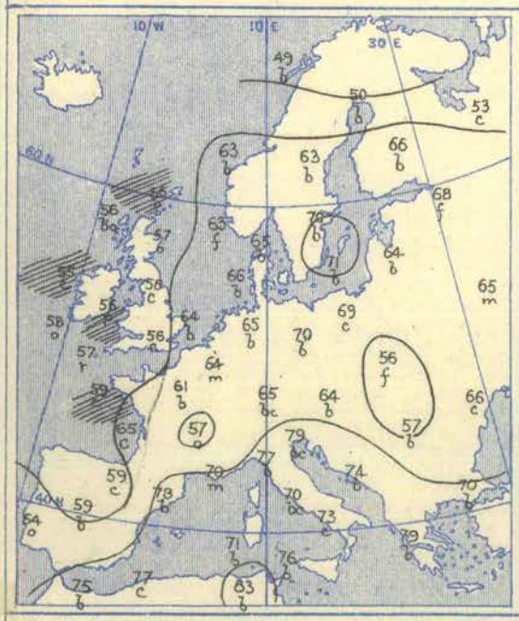
Temperature fallen several degrees over England, and to a less extent over western Europe generally, but risen somewhat over Sweden and the Balkan provinces. Morning readings highest, 82° at Trieste, 81° at La Calle, 80° at Sanguinaires and Algiers, 79° at Sfax, and 78° at Athens and Patras. Lowest, 46° at Archangel, 50° at Bödo, 51° at Parsonstown, 53° at Malin's Head and 54° at Blacksod Point. Rising during day to 75° and upwards over the south and east of England generally to 82° in London, and to 85° at Loughborough, exceeding 80° in many parts of France, reaching 91° at Trieste and Sanguinaires, and 93° at Florence, the highest reading recorded being 97° at Aumale.

Wind South-Westerly over our Islands and the neighbouring parts of the Continent light or moderate in force generally, but strong in the north-west of Ireland. Southerly, light in Denmark and the south of Sweden; Northerly, fresh or strong over the Black Sea and south-eastern Europe, light and variable elsewhere. Increasing in force over our Islands later, and falling light over south-eastern Europe. No important change elsewhere.

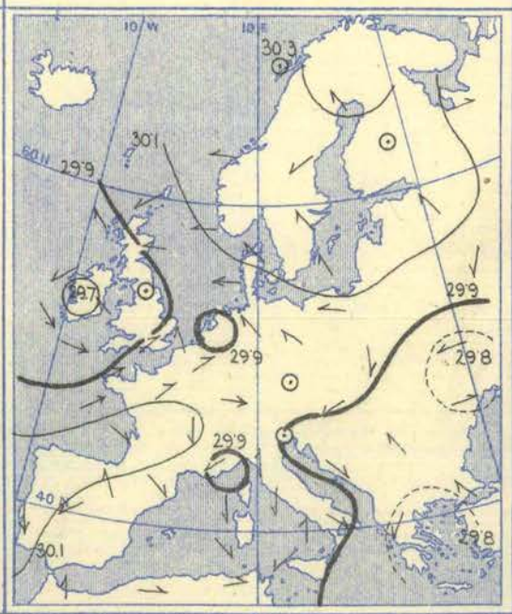
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over western Russia and the Baltic, and 30·1 ins. and upwards off the south-west of France and the north-west part of the Spanish Peninsula. Lowest, 29·5 ins. and less in a rather deep depression off the north-west of Ireland, 29·8 ins. and less over southern Russia and the Black Sea, and 30·0 ins. and less in a very shallow centre over the south of France. No great change later but new anticyclone appearing over the north of Scandinavia.

Monday, 12th August.

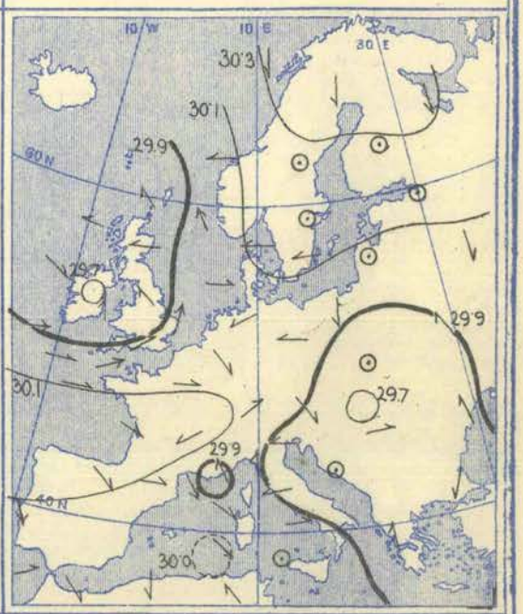
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning changeable and unsettled over the United Kingdom, with showers in many places; rain also falling at the Helder and Frankfürt, but remaining fine at the Continental stations generally. Rain falling later over our Islands, and also in Austria, Germany, and northern Italy. A thunderstorm occurred at Shields in the afternoon.

Temperature fallen slightly over our Islands and France, but changed very little on the Continent generally. Morning readings highest, (1) 83° at La Calle, 79° at Patras, 78° at Barcelona and Athens, 77° at Algiers and Sfax, and 76° at Palermo; (2) 70° at Stockholm and 71° at Wisby. Lowest, 49° at Bodö, 50° at Haparanda, 55° at Parsonstown, and 56° at Stornoway and Shields. Rising during day to 65° and upwards in many parts of Great Britain, and to 69° in London; exceeding 75° over Germany and France, and reaching 84° at Berlin. Over Italy and Algeria still higher maxima reported, the thermometer recording 86° at Cagliari and Palermo, and 90° at Pesaro and La Calle, the highest reading of all being 106° at Biskra.

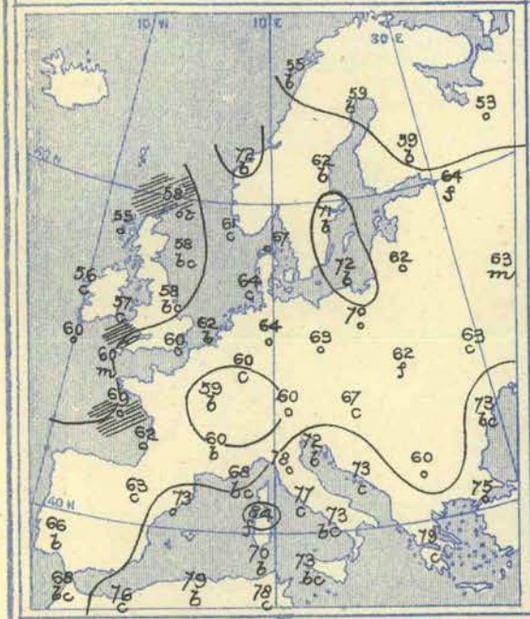
Wind fresh from South-West over the south of England and the north of France; Easterly or South-Easterly over the north of our Islands and on the Continent generally; moderate from North-West in the south of Ireland; variable over France. Over western Germany and the Netherlands the wind is cyclonic but light in force; another cyclonic circulation also shown over southern Russia.

Barometer highest, 30·3 ins. and upwards in an anticyclone over the north of Sweden, and 30·1 ins. and upwards over the north of Spain and the south-west of France. Lowest, 29·6 ins. and less over Ireland, 29·8 ins. and less over southern Russia, and also over Asia Minor, and 29·9 ins. and less in two small centres lying over the Netherlands and the Gulf of Genoa respectively. No great change later, but Irish depression moving slowly north-eastwards, and at the same time dispersing.

Tuesday, 13th August.

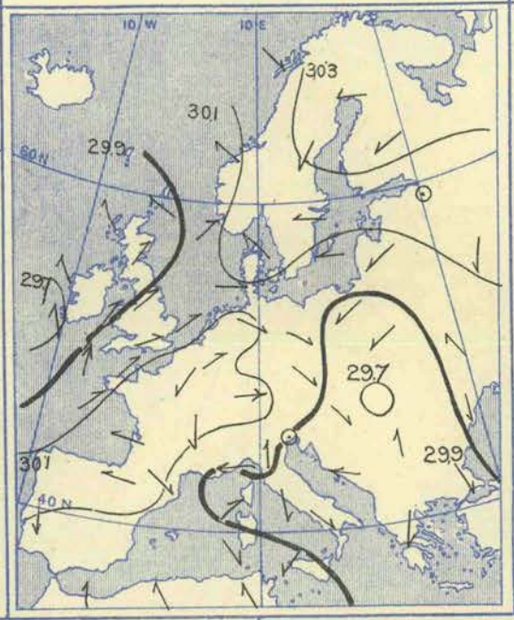
Temperature and Weather.

8 a.m.

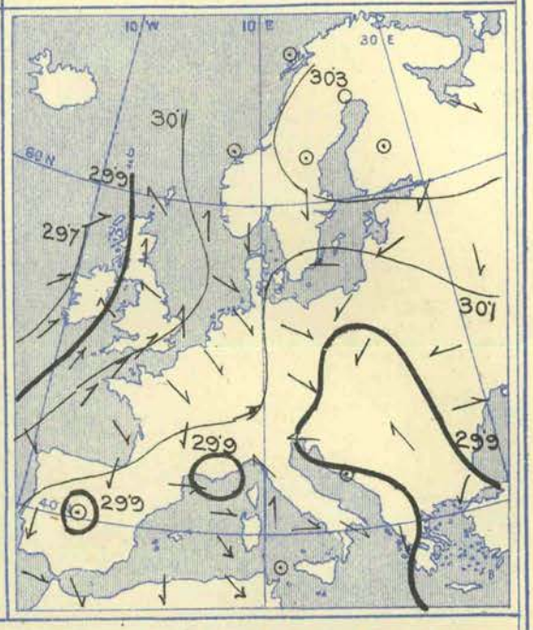


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over our Islands and on the Continent generally, but dull in Germany, and also in the west of France; showery over some of our south-western districts. Considerable rain later on our northern and western coasts, and a large amount over the St. George's Channel, as much as 1·26 ins. measured at Pembroke. Lightning seen at Donaghadee during the night.

Temperature risen slightly in our Islands, but fallen at most of the French and German stations; changed irregularly elsewhere. Morning readings highest, (1) 84° at Sanguinaires, 79° at Algiers and Athens, 78° at Leghorn and La Calle, and 77° at Rome; (2) 72° at Christiansund and Wisby, and 71° at Stockholm. Lowest, 53° at Archangel, 55° at Stornoway, and 56° at Nairn, Parsonstown, and Blacksod Point. Daily maxima exceeding 70° at many of our own inland stations, but thermometer rising to 81° both at Wisby and Berlin, readings ranging between 80° and 86° recorded at many south European stations; still higher values over the Spanish Peninsula; temperature rising to 93° at Madrid and 102° at Barcelona.

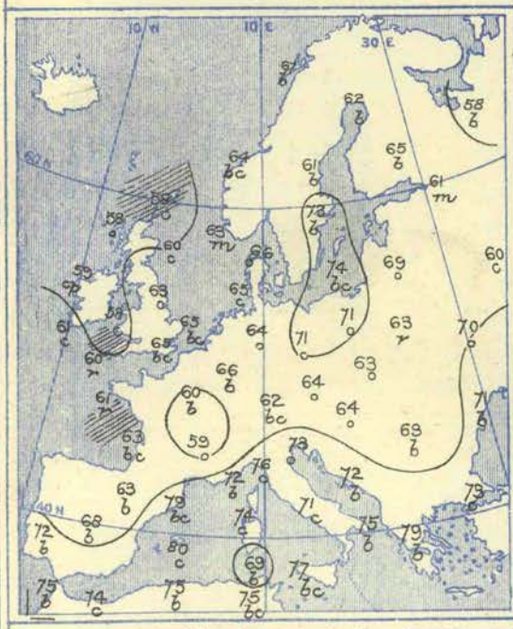
Wind light to moderate from the Southward or South-Eastward on our northern and western coasts, but South-Westerly over the greater part of England, and also in the north of France. Easterly over northern Europe generally. Westerly or North-Westerly over Germany, but light and variable over the Mediterranean and southern Europe. No important change later, but wind increasing to a strong breeze from South-East in the north of Ireland.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over northern Russia and the Gulf of Bothnia, and 30·1 ins. and upwards over France, the north of Spain, and western Germany. Lowest, 29·7 ins. and less in a disturbance lying off the west of Ireland, and 29·8 ins. and less in another depression over Austria. Depression off the west of Ireland moving a little to the northward later, and Austrian disturbance filling up, but a new low pressure area appearing over central Spain.

Wednesday, 14th August.

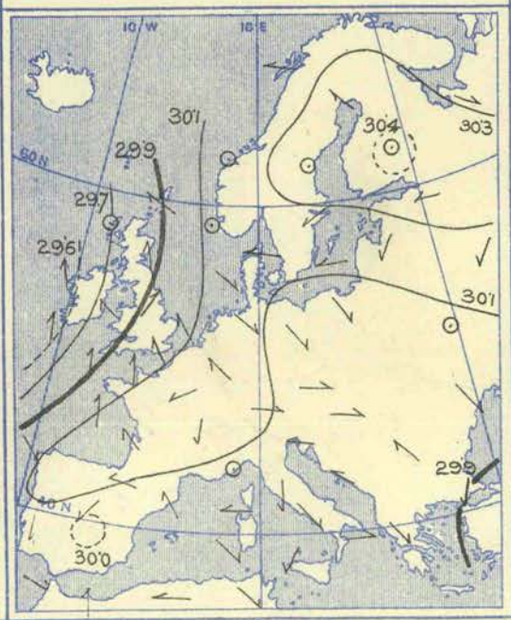
Temperature and Weather.

8 a.m.

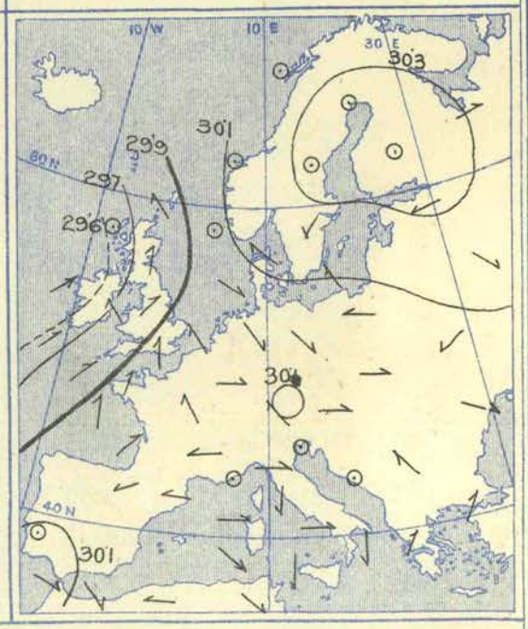


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine at the Continental stations, and also in many parts of Scotland and England, but cloudy or dull in the west, with rain at several Irish stations, and over our western and south-western counties. Rain later over our Islands and the west of France, heavily on our south coast, as much as 0·96 in. and 1·65 ins. being measured at Jersey and Portland Bill respectively. Thunderstorm at Malin Head during the afternoon.

Temperature risen somewhat over our Islands, but fallen at many of the Continental stations. Morning readings highest, (1) 84° at Turin, 80° at Palma, 79° at Barcelona and Athens, 78° at Patras and 77° at Palermo; (2) 76° at Memel, 74° at Wisby, and 73° at Stockholm. Lowest, 57° at Donaghadee and Roches Point, 58° at Archangel, Sumburgh Head and Stornoway, and 59° at several Irish stations. Rising during day to 65° and upwards over Great Britain, to 70° at Dungeness and Spurn Head, and 72° in London. Over France readings exceeding 80° were recorded in many places, in Scandinavia the maxima ranged from 70° at Faerder to 79° at Wisby; thermometer rising to above 80° in Italy, reaching 91° at Florence, 93° at Sanguinaires, and 95° at San Fernando.

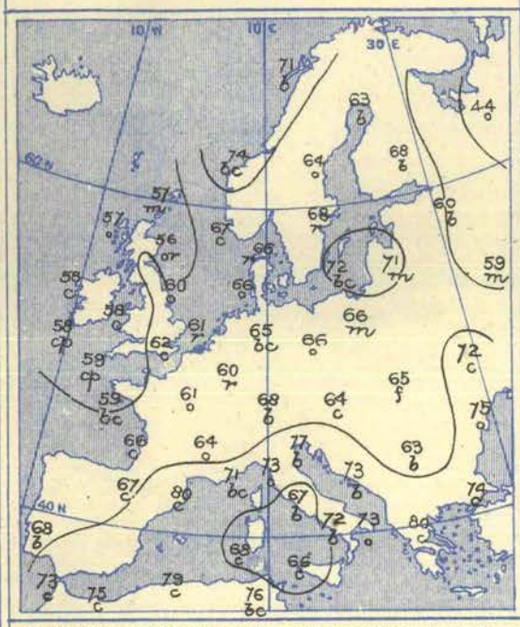
Wind light to fresh from South over our Islands, Westerly or North-Westerly in Germany. Calm or light from East over Scandinavia, and also over central France. Light and variable on the Continent generally. Veering to South-West later in Ireland, but no change of importance elsewhere.

Barometer 30·3 ins. and upwards in an anticyclone lying over northern Europe. Lowest 29·6 ins. and less in a depression of no great depth outside our western coasts, 29·9 ins. and less over Asia Minor, and 30·0 ins. and less in a very shallow system over central Spain. Depression off the west of Ireland moving slowly northwards later, other disturbances dispersing.

Thursday, 15th August.

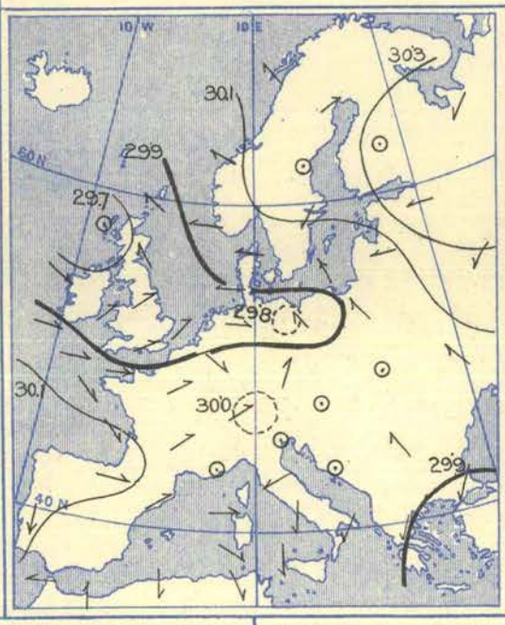
Temperature and Weather.

8 a.m.

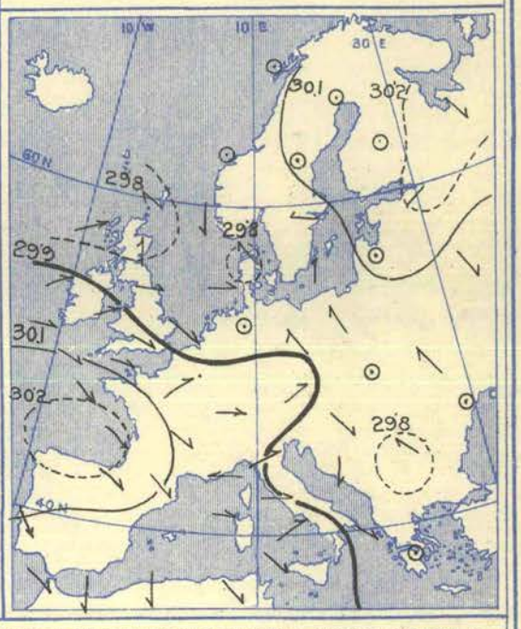


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine on the Continent generally, and in some parts of Ireland, but cloudy or dull elsewhere, with showers on our western and south-western coasts, and rain at several of the Scotch and English stations. Rain later in several parts of our Islands, and in considerable quantity at some of the German stations, as much as 1·4 ins. at Frankfürt. Thunderstorms over the south-east of England during the day, and at Malin Head in the early morning.

Temperature fallen a little over our Islands, and at many Continental stations. Morning readings highest, (1) 80° at Barcelona and Athens, 79° at Aumale, 76° at La Calle, and 75° at Sanguinaires, Nemours, and Odessa; (2) 74° at Christiansund, 72° at Memel and Wisby, and 71° at Bodö and Riga. Lowest, 44° at Archangel, 56° at Wick and Aberdeen, and 57° at Sumburgh Head and Stornoway. Rising later to 70° at Dungeness, 71° at Aberdeen, and 72° in London; exceeding 75° in Germany and Scandinavia, reaching 81° at Christiansund, rising to above 80° in the south of France, Italy, and in Austria, and reaching 86° at Palermo and San Fernando, touching 88° at Bilbao and Hermanstadt, the highest reading of all being 93° at Aumale.

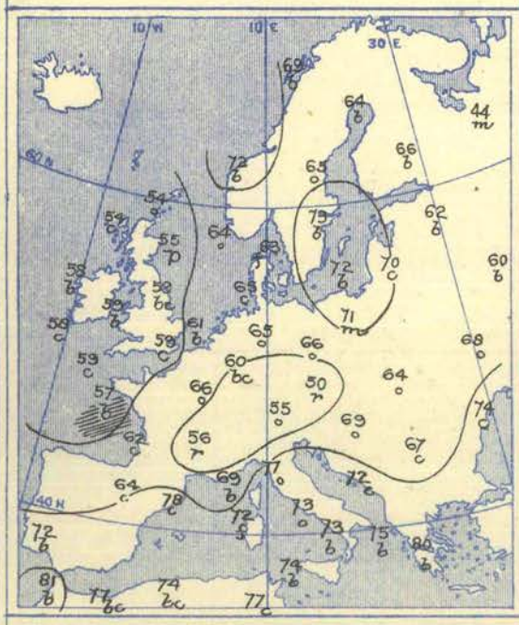
Wind Southerly or South-Easterly at all our northern and eastern stations, and light to moderate in force; Westerly in the south and west, North-Westerly over France, Easterly on the eastern shores of the North Sea, and over northern Europe generally; light and very variable elsewhere. No material change later, but Westerly winds spreading over our Islands and the North Sea.

Barometer highest, 30·3 ins. and upwards over north-eastern Russia, and 30·1 ins. and more over the south-west of France and the Bay of Biscay. Lowest, 29·7 ins. and less off the west of Scotland, 29·8 ins. and less in a small depression over the north of Germany, and 29·9 ins. and less over Asia Minor and the Grecian Archipelago. Russian anticyclone moving eastwards later. Depression over Germany travelling north-westward to Denmark, and new small disturbance appearing over the Gulf of Genoa.

Friday, 16th August.

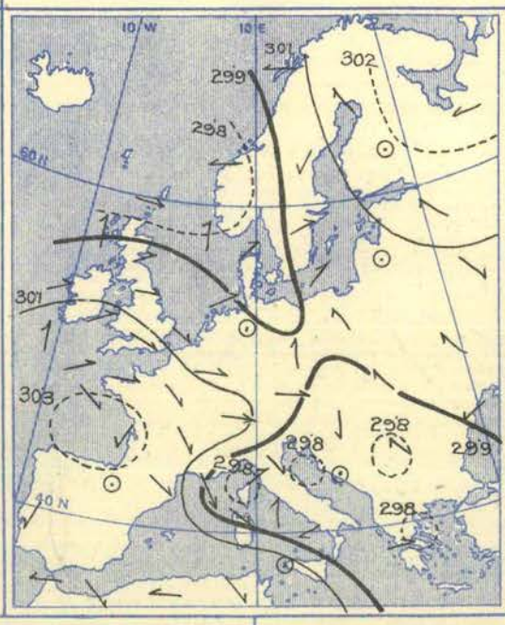
Temperature and Weather.

8 a.m.

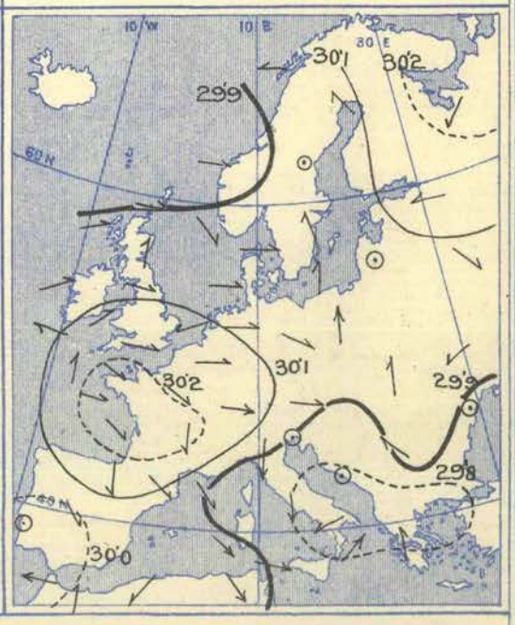


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over our Islands and on the Continent generally, but dull over Germany and central France, with rain at Lyons and Prague, and showers at Aberdeen. Considerable quantities of rain later on our western coasts, as much as 1·28 ins. measured at Roches Point. Rain also in Scandinavia, and in parts of Italy and Austria.

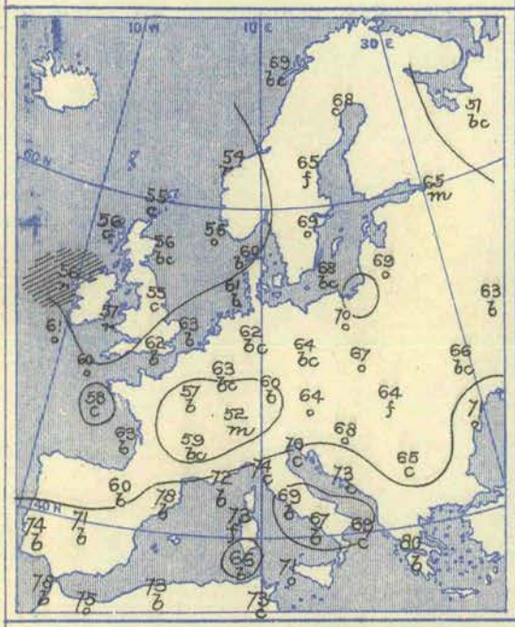
Temperature fallen somewhat in most places. Morning readings highest, (1) 81° at San Fernando, 80° at Patras, 78° at Barcelona and Athens, and above 70° over southern Europe generally; (2) 74° at Memel, 73° at Stockholm, and 72° at Christiansund and Wisby. Lowest, 44 at Archangel, 54° at Sumburgh Head and Stornoway, 55° at Aberdeen and Donaghadee, and 56° at Malin Head. Rising during day to 65° and upwards in our Islands, to 70° at Dungeness, and 72° in London. Over Scandinavia the maxima exceeded 75° in many places, and reached 79° in Haparanda, and 81° at Stockholm. Very high readings recorded over southern Europe generally; thermometer rising to 86° at Sanguinaires, 91° at Palermo, 95° at San Fernando, 99° at Tunis, and 106° at Barcelona.

Wind light from West or North-West over England and the neighbouring parts of the Continent. South-Westerly or Southerly in Ireland and Scotland; Southerly in Denmark and the south of Scandinavia. Chiefly Northerly or Easterly over Northern Europe and Russia. Several cyclonic circulations shown over southern Europe. No material change later, but wind increasing to a fresh or strong breeze over the Mediterranean.

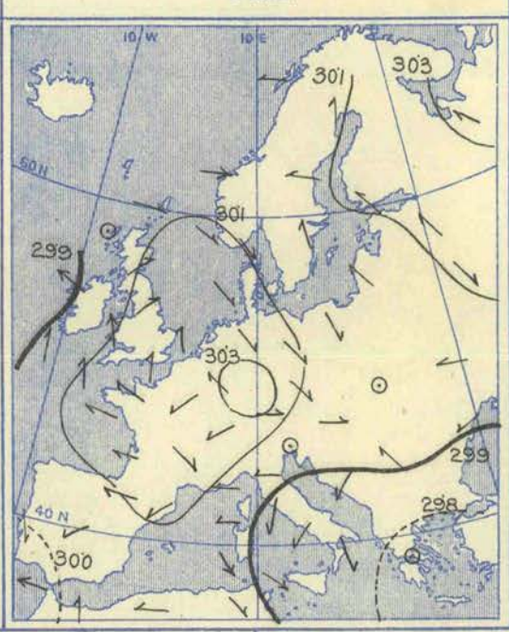
Barometer highest, 30·3 ins. and upwards over the west of France and the Bay of Biscay, and 30·2 ins. and upwards over northern Russia and the White Sea. Lowest, 29·8 ins. and less in a shallow depression off the west of Norway, and also in several small disturbances over southern Europe. High pressure over west of France spreading northwards later, and northern depression dispersing; no great change elsewhere.

Saturday, 17th August.

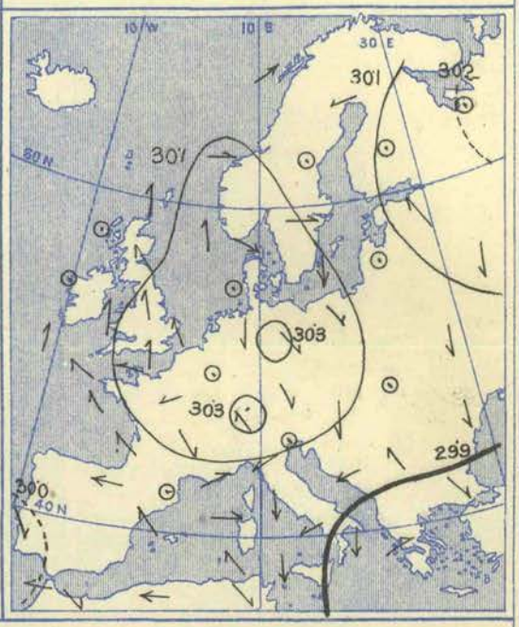
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy in Ireland, the west of England, and also at Christiansund and Karlstad, fair or fine elsewhere, with cloudless skies at many of the Continental stations. A solar halo seen at Jersey. Considerable quantities of rain later over our northern and western districts, also in Scandinavia, and in some parts of Austria and Italy.

Temperature changed rather irregularly, but fallen decidedly in the west of Norway. Morning readings highest, (1) 80° at Patras, 78° at Athens, San Fernando and Barcelona, and 75° at Nemours. (2) 73° at Memel and 70° at Neufahrwasser. Lowest, (1) 57° at Archangel; (2) 53° at Liverpool and Newton Reigny, 54° at Donaghadee and 55° at Sumburgh Head and Stornoway. Rising during day to 65° and upwards over the Kingdom generally to 72° at Jersey and 73° in London, exceeding 70° in Germany and Scandinavia, and reaching 75° at Stockholm. Rising to 80° or more over France and Italy and touching 88° at Rochefort. Higher maxima recorded over Spain and Algeria, thermometer rising to 96° at Bilbao, and 95° at Algiers.

Wind Southerly light to moderate over our Islands, but fresh from Eastward at Blacksod Point. Light Easterly in France. Westerly to North-Westerly over Germany and on the eastern shores of the North Sea, Southerly or South-Easterly over northern Europe. Moderate to fresh Northerly breezes reported from southern Europe. No change of importance later, but falling almost calm on our north-western coasts.

Barometer highest, 30·3 ins. and upwards over southern Germany, and also in a small anticyclone over the White Sea. Lowest, 29·8 ins. and less over Greece and Asia Minor, and also in a small system over central Italy, and 29·9 ins. and less off our extreme western coasts. Falling somewhat decidedly later over France and the southern districts of England. Anticyclone over Germany spreading northwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country

GENERAL NOTES.

During the greater part of this week barometrical pressure has been highest in an anticyclone lying over eastern Russia and northern Europe, while pressure was lowest over our northern and western districts, and also over the Mediterranean and southern Europe. The weather was fine at the Continental stations, but our western and north-western coasts were affected by the passage of a series of depressions, which travelled either over our Islands or skirted our extreme western coasts. These disturbances caused a considerable freshening of the wind at our western stations, and frequent heavy falls of rain over the western and southern parts of the Kingdom, with thunderstorms on several occasions. Towards the close of the week the northern anticyclone dispersed, and a new high-pressure system appeared over the west of France and the Bay of Biscay, and, gradually increasing in height and size, caused a considerable improvement in the weather over England. Shallow depressions, however, continued to travel outside our western and northern coasts, and conditions remained unsettled over Ireland and Scotland, with cloudy weather and frequent falls of rain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	39·0	+12·0	36	+11	BRIGHTON	48·7	−0·5	48	− 1
STRATHPEFFER SPA	35·9	+ 8·4	34	+ 8	WORTHING	50·1	?	50	?
EDINBURGH	33·8	+ 1·1	32	+ 1	BOGNOR	50·7*	?	50*	?
MORPETH	41·4	?	40	?	WATERGATE (Emsworth)	39·4	?	39	?
NEWCASTLE-ON-TYNE	34·5	?	33	?	WESTBOURNE (Emsworth)	45·7*	− 1·5	45*	− 2
OSWALDKIRK (Yorkshire)	32·2	+ 0·9	31	+ 1	VENTNOR HOSPITAL	40·2	− 6·6	40	− 7
YORK					BOURNEMOUTH	50·2	?	50	?
LOWESTOFT	59·0	?	58	?	SOUTHPORT	44·9	?	44	?
HOLLESLEY BAY	60·0	?	59	?	RHYL	*	?	*	?
SHEFFIELD	38·9	?	38	?	COLWYN BAY		?		?
WORKSOP	36·0	+ 2·8	35	+ 2	ABERDOVEY	25·1*	?	25*	?
THURCASTON (Leicestershire)	36·0	− 1·2	35	− 1	TENBY				
MARGATE	54·0	+11·6	53	+11	NEWQUAY	27·5	−19·5	27	−20
BROADSTAIRS	58·7	?	58	?	TORQUAY	42·7	− 5·1	42	− 6
EASTBOURNE	56·7	+ 9·9	56	+ 9	CAHIR (Duneske)	37·3*	?	37*	?
					GUERNSEY	51·8*	− 3·6	52*	− 4

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 34.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 24TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 200.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	80	40	64·0	48·4	55·8	1 above	97	+10	0	0	1661	+255	561	- 1
	1. SCOTLAND, EAST	78	37	69·1	48·1	58·0	2 above	112	+11	0	0	1808	+116	657	+45
	2. ENGLAND, N.E.	81	39	70·6	51·6	60·5	3 above	130	+16	0	0	1986	+162	516	+ 9
	3. ENGLAND, EAST	84	44	73·6	51·7	62·0	2 above	140	+17	0	0	2164	+ 44	560	+ 8
	4. MIDLAND COUNTIES	83	41	75·1	49·9	61·7	3 above	138	+19	0	0	2220	+100	591	+32
	5. ENGLAND, SOUTH	85	44	74·4	55·2	64·2	4 above	155	+24	0	0	2274	- 29	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	41	67·5	48·4	57·3	1 above	107	+ 6	0	0	1903	+105	470	+36
	7. ENGLAND, N.W.	79	40	70·1	51·0	60·0	2 above	126	+13	0	0	2066	+112	463	+44
	8. ENGLAND, S.W.	84	46	74·2	54·1	63·6	4 above	151	+31	0	0	2258	+115	369	+51
	9. IRELAND, NORTH	78	38	67·1	49·4	57·7	1 above	110	+ 4	0	0	1880	- 26	374	+11
	10. IRELAND, SOUTH	81	43	70·9	50·1	59·9	1 above	125	+11	0	0	2167*	- 4	325	+63
	—CHANNEL ISLANDS	83	56	72·6	60·0	65·9	4 above	167	+29	0	0	2516	+ 75	160	+38

Rainfall. / Bright Sunshine.

	DISTRICTS. (See p. 200.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	5 less	145	+ 1	24·3	+ 4·5	42	+17	41	+17	979	+118	30	+ 3
	1. SCOTLAND, EAST	0	—	7 less	120	- 1	17·2	- 1·9	51	+18	50	+18	1123	+139	35	+ 4
	2. ENGLAND, N.E.	0	—	6 less	107	- 7	13·0	- 2·4	64	+38	64	+37	1184	+199	37	+ 6
	3. ENGLAND, EAST	0	—	5 less	101	-14	11·5	- 3·7	72	+31	73	+31	1378	+157	42	+ 5
	4. MIDLAND COUNTIES	0	—	6 less	100	-11	16·3	- 0·7	69	+37	70	+36	1169	+154	39	+ 5
	5. ENGLAND, SOUTH	0	—	6 less	92	-15	14·5	- 2·0	82	+36	83	+38	1415	+181	45	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	10 less	124	-10	26·4	- 4·3	68	+35	68	+35	1200	+166	38	+ 5
	7. ENGLAND, N.W.	0	—	8 less	113	- 7	15·7	- 4·5	82	+51	82	+52	1307	+231	41	+ 8
	8. ENGLAND, S.W.	0	—	8 less	101	-13	21·0	- 2·7	83	+39	84	+40	1363	+117	44	+ 4
	9. IRELAND, NORTH	1	less than ½	8 less	139	- 5	20·3	- 1·6	66	+38	66	+37	1033	+ 87	33	+ 3
	10. IRELAND, SOUTH	0	—	9 less	112	-19	20·0*	- 4·8	74	+42	75	+43	1147	+ 78	36	+ 2
	— CHANNEL ISLANDS	0	—	6 less	119	- 5	18·1	- 0·3	84	+30	85	+31	1464	+ 36	48	+ 1

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was extremely fine and warm until the close of the week, when rain fell in the extreme northern and north-western parts of the Kingdom—heavily in the former region.

Temperature was above the mean, the excess ranging from 4° in England S. and S.W. and the Channel Islands to only 1° in Ireland and the west and north of Scotland. The highest of the maxima occurred over the greater part of England and the south of Ireland on the 18th, when the thermometer exceeded 80° in many places and reached 85° in London. In other districts the absolute maxima occurred on the 21st or 22nd, the thermometer reaching 75° or more at several stations, and touching 80° in Scotland N. The lowest of the minima occurred at varying times in the different districts and ranged from 37° in Scotland E., 38° in Ireland N., and 39° in England N.E., to 46° in England S.W., and to 56° in the Channel Islands.

Rainfall.—Over the country generally there was an entire absence of rain. In the extreme north of Scotland, however, showers occurred at rather frequent intervals, a heavy fall being observed in the same neighbourhood at the close of the week.

Bright Sunshine was unusually prevalent, more than 70 per cent. of the possible amount being recorded in all the more western and southern districts, and more than 80 per cent. in the west and south of England. In England S.W. the percentage was as high as 84, while in the Channel Islands it amounted to 85. In Scotland N., however, there was only 41 per cent. of the possible duration.

Barometer and Wind.—Shortly after the commencement of the week a large anticyclone spread from the Atlantic firstly over our Islands and subsequently over the whole of western and central Europe. During the greater part of the time the central portion of the system lay directly over our Islands, the wind being light to moderate from the Eastward or North-Eastward over the southern, but light from between South and West over the northern half of the Kingdom. Towards the close of the week the anticyclone began to disperse gradually, and on the night of the 24th a well marked depression appeared off the north of Scotland, causing the heavy rain already noticed in that region.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°			Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	48	57·7	49·9	53·6	+ 1·0	81	0	5	0·75	0·00	*	*	*	*
	Stornoway	68	44	63·1	48·9	55·6	+ 1·6	95	0	3	0·67	− 0·18	43·4	+14·6	42	+14
	Wick	67	42	64·0	48·6	55·8	+ 1·6	97	0	4	0·21	− 0·39	*	*	*	*
	Lairg Ⓢ	80	40	70·0	46·0	57·3	+ 3·1	107	0	1	0·06	− 0·59	*	*	*	*
	Glencarron Ⓢ	70	43	62·5	47·9	54·8	+ 0·5	90	0	2	1·15	− 0·43	*	*	*	*
	Fort Augustus Ⓢ	74	41	? 67·1	? 47·7	? 56·8	? + 0·6	? 104	0	0	—	− 0·78	39·3	+19·6	39	+20
	Fort William Ⓢ	68	45	63·9	49·7	56·4	− 0·1	101	0	2	0·04	− 1·35	43·0	+20·5	42	+20
1. SCOTLAND, E.	Nairn	77	41	67·3	48·3	57·2	+ 1·3	106	0	0	—	− 0·61	*	*	*	*
	Aberdeen	74	42	65·7	48·6	56·6	+ 0·8	102	0	0	—	− 0·68	46·7	+13·0	46	+13
	Braemar Ⓢ	74	37	67·6	44·5	55·4	+ 2·4	94	0	0	—	− 0·84	†	†	†	†
	Ochtertyre Ⓢ	78	41	73·7	48·0	60·1	+ 3·5	127	0	0	—	− 0·85	*	*	*	*
	Leith	77	46	70·0	51·4	60·1	+ 2·2	127	0	0	—	− 0·60	*	*	*	*
	Marchmont Ⓢ	77	41	70·4	47·7	58·4	+ 2·8	115	0	0	—	− 0·78	55·0	+21·5	54	+21
2. ENGLAND, N.E.	Alnwick Castle	79	41	69·9	50·4	59·6	+ 3·2	123	0	0	—	− 0·70	*	*	*	*
	Durham	80	39	71·8	49·5	60·0	+ 2·6	126	0	0	—	− 0·61	?73·1	?+10·9	?72	?+40
	Shields	79	45	68·3	52·1	59·7	+ 2·5	124	0	1	0·03	− 0·59	*	*	*	*
	Scarborough Ⓜ	78	43	68·5	50·7	59·1	+ 0·9	120	0	0	—	− 0·61	64·1	?	64	?
	Spurn Head	72	54	68·7	56·4	62·2	+ 3·0	141	0	0	—	− 0·42	*	*	*	*
	Fulbeck (Lincolnshire)	81	43	76·1	50·4	62·5	+ 3·6	144	0	0	—	− 0·55	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	83	44	76·3	49·8	62·3	+ 2·7	142	0	0	—	− 0·62	65·2	+26·4	66	+27
	Yarmouth	72	53	68·1	57·3	62·4	+ 2·5	143	0	0	—	− 0·52	*	*	*	*
	Geldeston	81	44	73·5	49·8	60·7	+ 1·1	131	0	0	—	− 0·47	61·5	+19·5	62	+19
	Cambridge	84	46	78·5	49·2	63·0	+ 2·4	147	0	0	—	− 0·53	79·5	+38·4	80	+38
	Felixstowe	77	51	70·4	55·5	62·5	+ 2·8	144	0	0	—	?	74·2†	?†	75†	?†
	Rothamsted	78	45	74·5	48·8	60·9	+ 1·7	132	0	0	*0·01	− 0·55	80·9	+39·4	82	+40
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	82	41	76·9	49·7	62·5	+ 3·8	144	0	0	—	− 0·54	*	*	*	*
	Loughborough	83	43	77·3	47·7	61·6	+ 1·6	137	0	0	—	− 0·56	*	*	*	*
	Colly Weston (Stamford)	83	45	78·1	50·7	63·5	+ 4·1	151	0	0	—	?	*	*	*	*
	Cheadle Ⓜ	77	47	72·5	51·9	61·6	+ 4·5	137	0	0	—	− 0·80	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	79	48	72·4	52·9	62·1	+ 3·5	141	0	0	—	− 0·63	?55 8	?	?56	?
	Churchstoke Ⓜ	80	43	74·2	47·2	59·9	+ 2·6	125	0	0	—	− 0·60	75·6	+38·6	76	+39
	Hereford (Belmont) Ⓜ	78	43	73·5	47·2	59·6	+ 0·2	123	0	0	—	− 0·55	*	*	*	*
	Cirencester	78	47	74·4	51·0	62·0	+ 3·9	140	0	0	—	− 0·70	77·0	+37·0	78	+37
	Oxford	80	47	76·3	50·9	62·8	+ 2·6	146	0	0	—	− 0·54	79·9	+38·9	81	+39
5. ENGLAND, S.	London	85	49	79·0	53·3	65·4	+ 4·0	164	0	0	—	− 0·52	71·4†	+33·6†	72†	+33†
	Swarraton (Alresford) Ⓜ	79	44	74·5	49·0	61·0	+ 1·6	133	0	0	—	− 0·65	*	*	*	*
	Dungeness	74	60	70·1	60·9	65·2	+ 3·8	162	0	0	—	− 0·44	73·0	?	73	?
	Hastings (St. Leonards)	81	55	74·6	57·3	65·4	+ 4·3	164	0	0	—	− 0·55	85·2	+38·5	87	+40
	Southampton	82	51	78·0	53·9	65·2	+ 3·7	162	0	0	—	− 0·60	?80·8	?+35·2	?82	?+36
	Portland Bill	78	57	70·3	58·4	64·0	+ 3·4	154	0	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	76	50	74·0	53·9	63·4	+ 4·2	150	0	0	—	− 0·66	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	44	64·4	49·0	56·2	− 0·5	99	0	3	0·09	− 1·21	*	*	*	*
	Glasgow	71	44	67·5	49·9	58·2	+ 1·9	113	0	0	—	− 0·90	48·3	+20·3	47	+19
	Glenlee Ⓢ	75	41	70·3	46·3	57·6	+ 1·3	109	0	0	—	− 1·01	*	*	*	*
	Douglas (Isle of Man)	70	45	67·7	48·4	57·5	+ 0·8	109	0	0	—	− 0·89	87·5	+48·8	88	+50
7. ENGLAND, N.W.	Newton Reigny	76	40	72·1	45·0	57·7	+ 1·6	110	0	0	—	?	81·7	?	81	?
	Stonyhurst	76	46	71·3	51·2	60·7	+ 3·2	131	0	0	—	− 1·18	82·9	+50·4	83	+51
	Blackpool Ⓜ	73	47	69·4	49·4	58·8	+ 0·1	118	0	0	—	− 0·78	84·8	+50·9	85	+51
	Manchester (Prestwich)	79	44	74·9	50·0	61·7	+ 3·7	138	0	0	—	− 0·90	72·9	?	73	?
	Liverpool Obsy. (Bidston)	72	51	68·6	54·3	61·0	+ 1·8	133	0	0	—	− 0·68	78·6	?	79	?
	Chester (Hawarden Bridge)	76	46	71·3	50·4	60·2	+ 0·7	127	0	1	0·02	?	*	*	*	*
	Llandudno Ⓜ	75	51	68·4	53·6	60·6	+ 0·9	130	0	0	—	− 0·65	88·4	+52·9	89	+53
	Holyhead	67	53	65·1	53·9	59·2	+ 0·4	120	0	0	—	− 0·69	*	*	*	*
8. ENGLAND, S.W.	Llandovery	84	46	79·7	49·9	63·9	+ 5·3	153	0	0	—	− 1·09	*	*	*	*
	Pembroke	72	56	68·1	56·7	62·1	+ 3·1	141	0	0	—	− 0·68	81·4	+38·9	82	+39
	Clifton												*	*	*	*
	Bath	79	47	76·9	50·7	63·0	+ 2·2	147	0	0	—	?	78·2	?	80	?
	Arlington (N. Devon)	77	49	74·7	53·3	63·4	+ 5·2	150	0	0	—	− 1·15	*	*	*	*
	Cullompton Ⓜ	79	47	76·8	51·3	63·3	+ 3·9	149	0	0	—	− 0·64	82·3	+41·8	84	+43
	Falmouth	75	57	68·8	58·9	63·6	+ 3·7	151	0	0	—	− 0·82	68·1	+40·0	90	+42
	Plymouth	78	55	74·2	57·9	65·6	+ 4·9	165	0	1	0·02	− 0·65	83·0	+39·5	85	+41
9. IRELAND, N.	Malin Head	71	49	63·3	53·6	58·2	+ 0·9	113	0	1	0·03	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	76	38	70·7	46·0	57·6	+ 1·6	109	0	1	0·02	− 0·83	*	*	*	*
	Blacksod Point	70	53	64·7	54·1	59·1	+ 1·2	120	0	2	0·02	?	*	*	*	*
	Markree Castle	74	40	69·8	44·9	56·6	+ 0·3	102	0	0	—	− 0·94	70·3	+41·8	70	+41
	Armagh	78	43	70·7	46·7	58·0	+ 1·0	112	0	0	—	− 0·73	61·1	+32·9	61	+33
	Donaghadee	70	48	63·6	50·9	56·9	− 0·1	104	0	0	—	− 0·75	*	*	*	*
10. IRELAND, S.	Dublin	72	49	68·5	52·2	59·9	+ 1·0	125	0	0	—	− 0·67	73·7	+37·5	74	+38
	Do. (week ended 17th)	69	49	67·1	53·7	60·0	+ 0·5	126	0	4	0·51	− 0·18				
	Parsonstown	79	45	73·0	47·9	59·7	+ 2·1	124	0	0	—	− 0·85	68·2	+37·0	69	+37
	Kilkenny	78	43	73·0	49·0	60·3	+ 1·7	128	0	0	—	− 0·78	*	*	*	*
	Roche's Point	68	50	66·4	53·0	59·3	+ 0·1	121	0	0	—	− 0·88	*	*	*	*
	Valencia	73	47	68·7	50·6	59·1	+ 0·3	120	0	0	—	− 1·11	87·2	+53·4	88	+53
	Killarney	81	44	74·3	48·0	60·4	+ 1·9	129	0	0	—	− 1·08	*	*	*	*
	Foynes	76	48	72·1	49·8	60·3	+ 2·2	128	0	0	—	− 0·92	*	*	*	*
‡ CHANNEL ISLANDS	Scilly (St. Mary's)	72	56	68·0	58·0	62·7	+ 2·0	145	0	0	—	− 0·58	83·0	?	85	?
	Jersey	83	59	77·1	61·9	69·0	+ 6·5	189	0	0	—	− 0·58	84·8	+30·5	87	+32

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

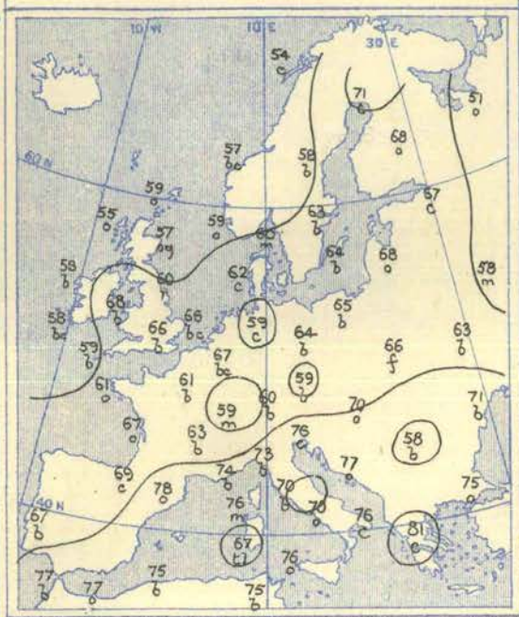
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered Liverpool at Hoylake.

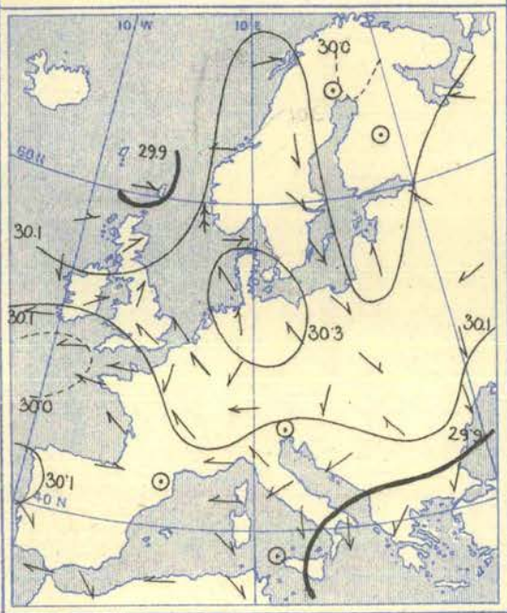
* Dew, Mist, &c.

Sunday, 18th August.

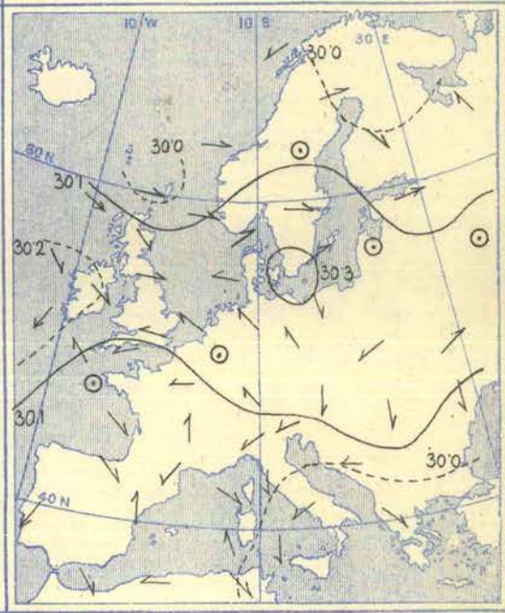
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in all the more southern parts of the United Kingdom and also over the Continent as a whole, but cloudy or dull in the west of France and the north of Spain as well as in some parts of Austria; cloudy also at several of the northern stations in Sweden and Russia, with rain at Haparanda and a thunderstorm at Helsingfors. Cloudy or dull in the northern parts of our Islands, with rain at Shields. Slight rain falling later at several of our own northern stations and thunder occurring at Wick; lightning seen at Perpignan.

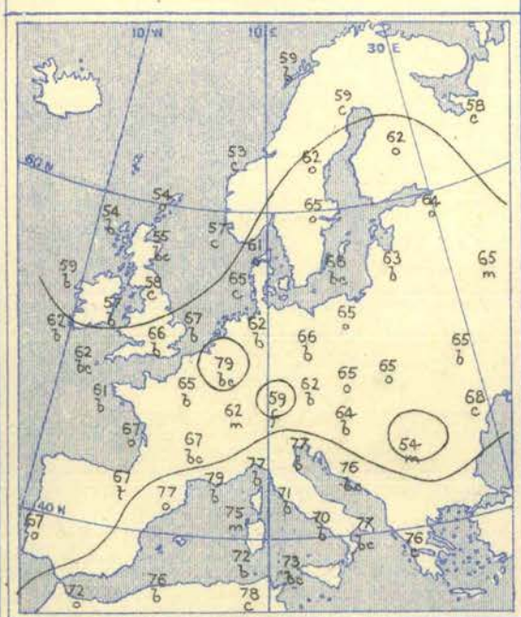
Temperature risen generally but fallen over Scandinavia and the Baltic. Morning readings highest, 81° at Athens, 79° at Toulon, and 78° at Barcelona and Patras; above 70° over southern Europe generally as well as in some parts of Finland, and above 65° over France, the Netherlands and the south and east of England. Lowest, 53° at Sumburgh Head, 54° at Bodö, and 55° at Stornoway. Rising during day to 80° and upwards at several of the English stations and to 85° in London; exceeding 85° in many parts of France and Italy, the highest readings reported being 100° at Sanguinaire and 91° at Croisette.

Wind light from between South and West in the northern parts of our Islands; Southerly or South-Easterly on the eastern shores of the North Sea, with a gale at Skudesnaes. Light from the Eastward or South-Eastward over France and the southern parts of the United Kingdom. Northerly (North-Easterly to North-Westerly) over the eastern, central and southern parts of the Continent generally but rather variable in Germany. Subsequently veering to the Westward or North-Westward over the northern parts of Great Britain and to the Northward in Ireland; North-Westerly breezes also setting in over the west of France.

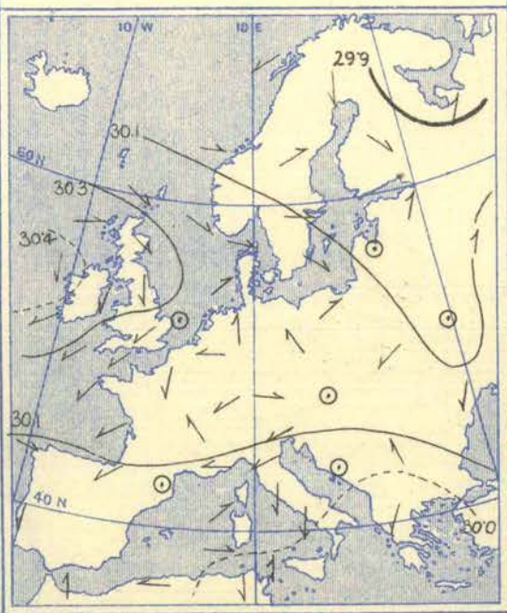
Barometer highest, 30·3 ins. and upwards to 30·2 ins. in an anticyclone lying over Denmark, Germany, and the south of Sweden; 30·2 ins. and upwards in another system over central Russia. Lowest, 29·9 ins. and less in a small depression off the north of Scotland and also in a large shallow area over Turkey and Asia Minor; 30·0 ins. and less in a shallow disturbance near the mouth of the English Channel. New anticyclone spreading over Ireland later from the Atlantic; depression in north moving north-eastward and small Channel disturbance entirely dispersing.

Monday, 19th August.

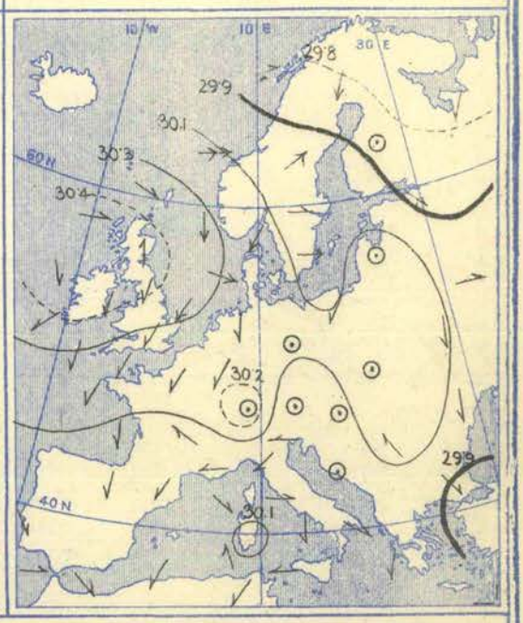
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull at some of the southern French stations, with thunder at Biarritz. Cloudy or dull also over Sweden and northern Russia, with rain at Karlstad and Helsingfors. A little rain falling later in some parts of northern Russia and a considerable quantity (1·0 in.) at Christiansund. Thunderstorm occurring at Biarritz, but accompanying rainfall slight.

Temperature fallen in Great Britain and also in Finland, risen in most other countries. Morning readings highest, 79° at Brussels and Toulon, and 78° at Tunis; above 75° at many of the Mediterranean and Adriatic stations; above 70° in the Channel Islands and above 65° in the south and east of England. Lowest, 53° at Christiansund, 54° at Sumburgh Head and Stornoway, and 55° at Wick, Aberdeen and Parsonstown. Rising during day to 75° and upwards at many of our own southern stations, to 81° in London and to 83° at Jersey, exceeding 85° in many parts of France and southern Europe, the highest readings reported being 93° at Sanguinaire and 90° at Lorient.

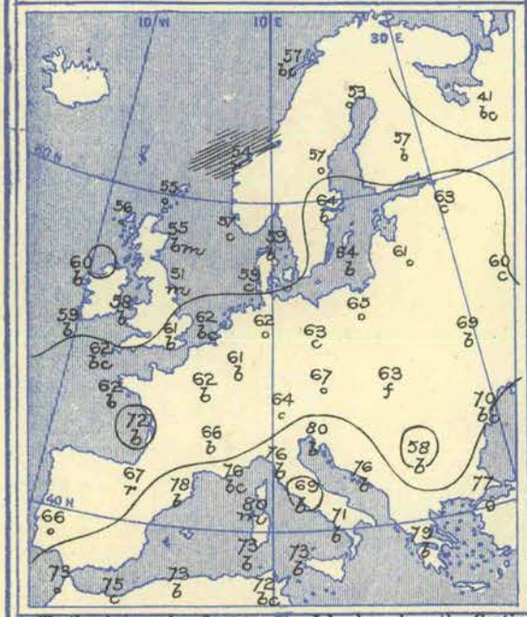
Wind light to moderate from the Northward or North-Eastward over Ireland, England, the Netherlands, France and northern Italy. Westerly or North-Westerly in Scotland and also over the greater part of northern Europe, but variable in the extreme northern parts of Russia and Scandinavia. Light and variable over Austria, Westerly over the Spanish Peninsula. No important change occurring later, but wind increasing at some of the Scandinavian stations and blowing a gale from the Westward at Christiansund.

Barometer highest, 30·4 ins. and upwards over western and central Ireland; 30·2 ins. and upwards in an anticyclone covering the whole of our Islands, the Netherlands, Denmark, Germany, and Austria. Lowest, 29·9 ins. and less in a shallow depression over the White Sea; 30·0 ins. and less in a large area lying over the eastern and central parts of the Mediterranean. Anticyclone increasing in intensity during day and extending eastwards to the south-west of Russia.

Tuesday, 20th August.

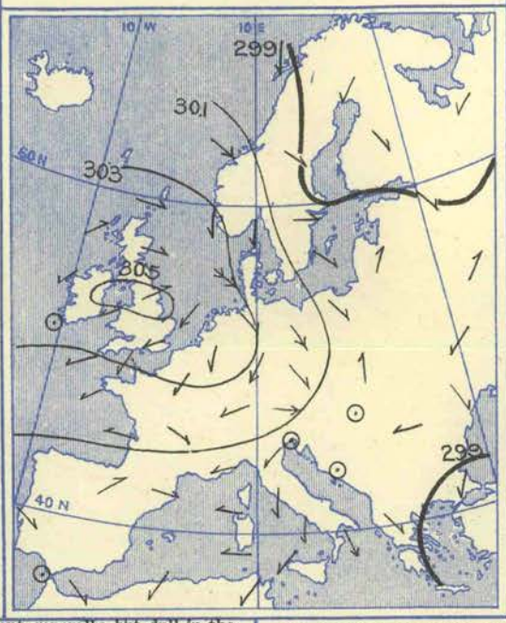
Temperature and Weather.

8 a.m.

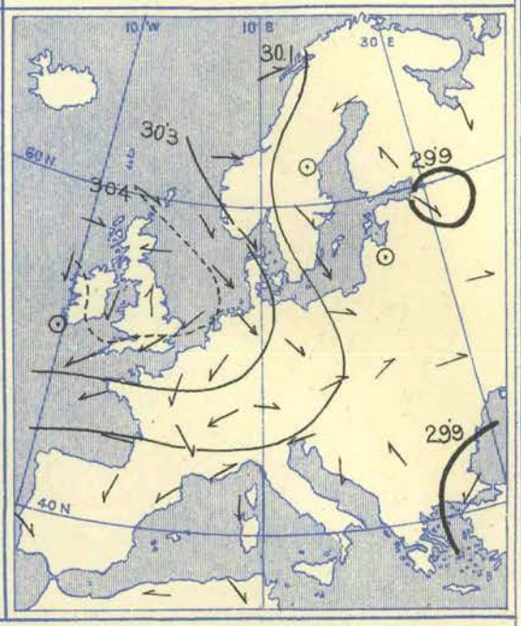


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over our Islands and on the Continent generally, but dull in the Shetlands and Hebrides, as well as at some of the Scandinavian stations, with rain at Christiansund, and also at Biarritz. Rain later in considerable quantity in the east of Germany, and in small amount at Archangel, Christiansund and Wisby, but none reported in any other places. Aurora seen at night at Wick and Skagen, and lightning at Biarritz.

Temperature fallen a little over England, and also over northern and western Europe, but risen a little elsewhere. Morning readings highest, 80° at Trieste, 79° at Cape Sicié, Patras and Aumale, 78° at Barcelona, and 77° at Brindisi and Constantinople, above 70° over southern Europe generally. Lowest, (1) 41° at Archangel, 53° at Haparanda, and 54° at Christiansund; (2) 51° at Shields, 53° at Newton Reigny and Loughborough, and 54° at Leith. Rising during day to 70° or slightly above it in many parts of the United Kingdom, and to 75° at Parsonstown, exceeding 80° in the north of France, and reaching 86° at Lyons and Nice, and 90° at Bordeaux and Limoges. Maxima also very high over Italy, Austria and Algeria, thermometer rising to above 90° at many stations.

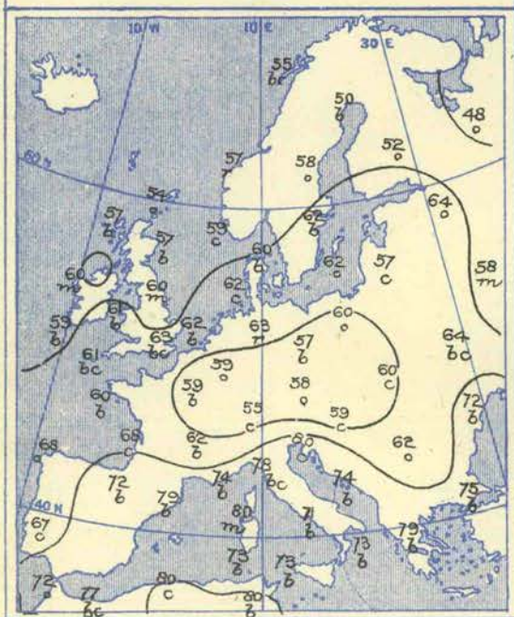
Wind light to moderate from North-East or East over Ireland, England, France and the Netherlands, light from West in Scotland, North-West or North over northern Europe generally, chiefly Northerly to Easterly over southern Europe and the Mediterranean. No material change later, but becoming more variable in direction at the Continental stations.

Barometer 30·5 ins. and upwards in the central area of an anticyclone lying over north-western Europe. Lowest, 29·9 ins. and less in two shallow areas over north-western Russia and the Gulf of Bothnia and Asia Minor respectively. Falling a little in most places later, and northern low pressure moving southwards, and at the same time dispersing, that over Asia Minor remaining almost stationary.

Wednesday, 21st August.

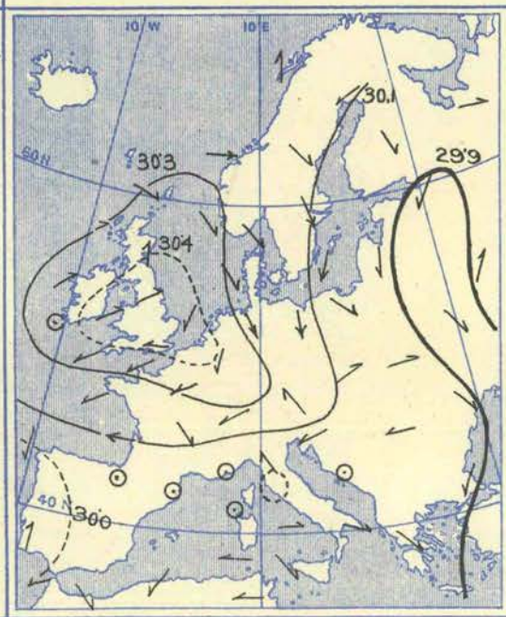
Temperature and Weather.

8 a.m.

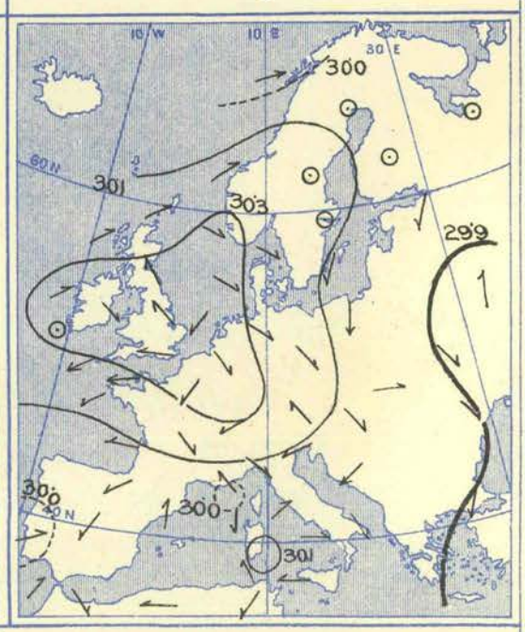


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but cloudy or dull at several of the Russian and Scandinavian stations, with rain at Christiansund and also at Cuxhaven. Slight rain falling later in the Shetlands and Hebrides and also at some stations in the north of Russia, and a much larger quantity (1·4 ins.) at Bodö.

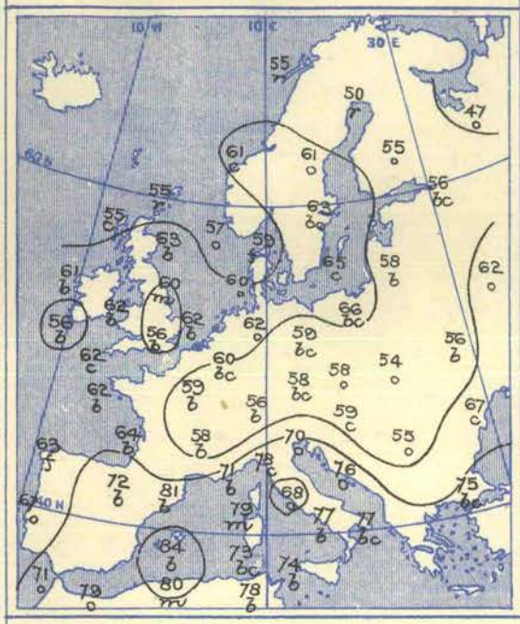
Temperature risen over the greater part of our Islands and also in Norway and Denmark, fallen in most other countries. Morning readings highest, 80° at Sanguinaire, Trieste, Algiers and La Calle, and 79° at Toulon, Barcelona and Aumale; above 70° over southern Europe generally and slightly above 65° in the Channel Islands. Lowest, (1) 48° at Archangel, 59° at Haparanda, and 52° at Uleaborg and Kuopio; (2) 50° at Loughborough and 52° at Leith. Rising during day to between 70° and 75° in many parts of the United Kingdom and reaching 78° at Loughborough; exceeding 85° at several places in France and southern Europe, the highest reading reported being 94° at Bordeaux, and 93° at Rochefort, La Coubre, Croisette, and Sanguinaire.

Wind light to moderate from the Eastward or North-Eastward over the south of England and the greater part of France, Southerly or South-Westerly in the northern parts of the United Kingdom, and fresh in force at Malin Head. Light to moderate from the Northward or North-Westward over northern and central Europe generally, and also in Greece and Italy; variable over Spain and the extreme south of France. No important change occurring during day.

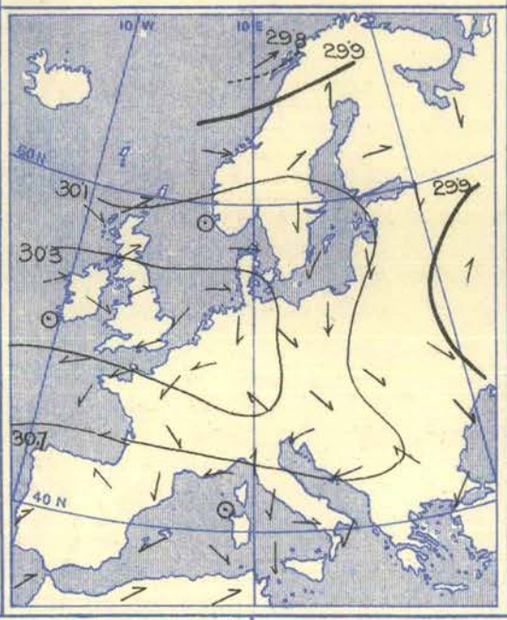
Barometer highest, 30·4 ins. and upwards over England and the east of Ireland; 30·2 ins. and upwards in an anticyclone covering the whole of north-western Europe. Lowest, 29·9 ins. and less in a large shallow area lying over Asia Minor, the Black Sea and the extreme south and west of Russia. Anticyclone giving way slowly during day and depression approaching the coasts of Finmark from the westward.

Thursday, 22nd August.

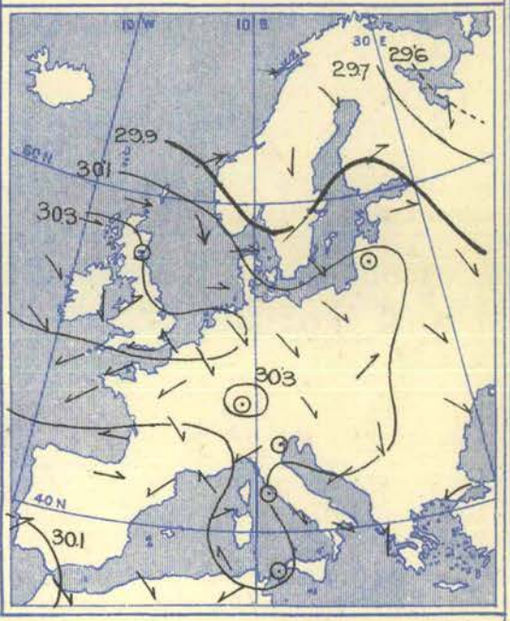
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over nearly the whole of Europe, but dull in the north of Scotland and also in many parts of Russia and the north of Scandinavia, with rain at Sumburgh Head, Bödö and Uleaborg. Rain falling later on our own extreme north and north-west coasts and in the northern parts of Scandinavia; amount small in most places, but large (1·5 in.) at Bödö. Thunderstorm with heavy rain occurring at Biarritz.

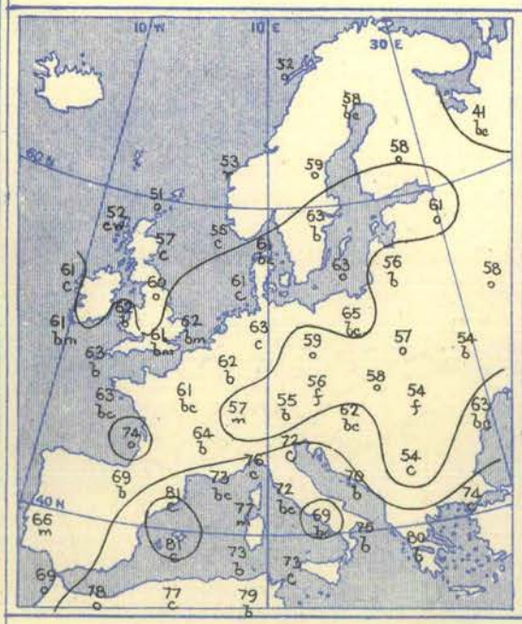
Temperature risen over the northern parts of our Islands and the Continent but changed very irregularly elsewhere. Morning readings highest, 84° at Palma, 81° at Barcelona and 80° at Algeria; above 75° at most of the Mediterranean and Adriatic stations. Lowest, (1) 47° at Archangel and 50° at Uleaborg; (2) 54° at Loughborough and 55° at Sumburgh Head and Stornoway. Rising during day to 75° and upwards in many parts of the United Kingdom, and to 82° at Loughborough; exceeding 85° at several places in Spain, Italy, and the west and south of France, the highest readings recorded being 95° at Bordeaux and 93° at Rochefort and Sanguinaire.

Wind light to moderate from the Eastward or North-Eastward over all the more southern parts of our Islands and also over France, the Netherlands and western Germany. Light from the Westward or South-Westward in the northern parts of the United Kingdom, and moderate to fresh from the same quarters in Scandinavia. Northerly over the Baltic, North-Westerly over eastern Germany, Austria, and the south of Russia; Northerly or North-Easterly in Italy. No important change occurring during day.

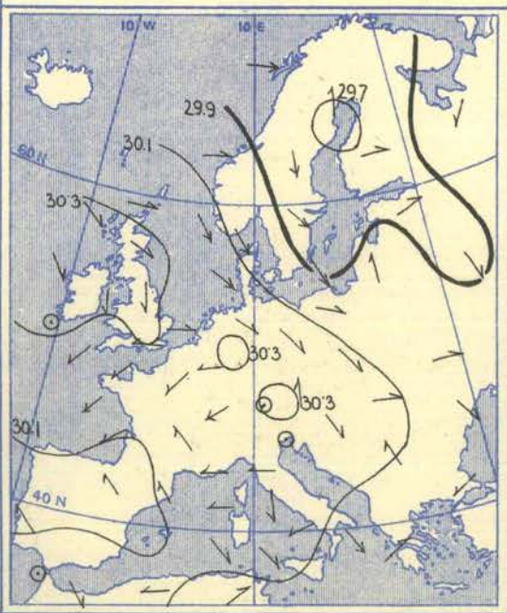
Barometer highest, 30·3 ins. and upwards over Ireland, England, the Netherlands, western Germany, and the north-east of France; 30·2 ins. and upwards in an anticyclone covering nearly the whole of north-western and central Europe. Lowest, 29·8 ins. and less in a depression lying off the coast of Finmark; 29·9 ins. and less in a large shallow area over the central and southern parts of Russia. Depression off the Norwegian coasts subsequently moving south-eastwards; no material change occurring over western or southern Europe.

Friday, 23rd August.

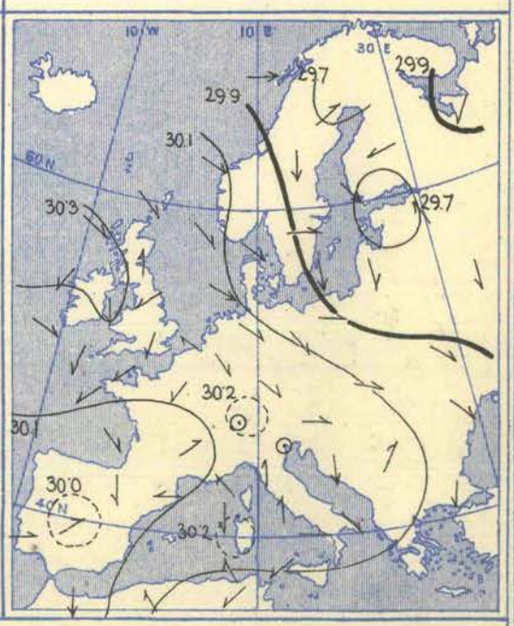
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and southern Europe generally, but cloudy over the northern parts of the United Kingdom, with showers at Wick and Malin Head. Cloudy or dull in most of the northern countries, with rain at Christiansund. No important change occurring during day, but slight rain falling in the west of Norway as well as at some of the Russian stations; thunderstorms occurring at Clermont, Nemours and Oran.

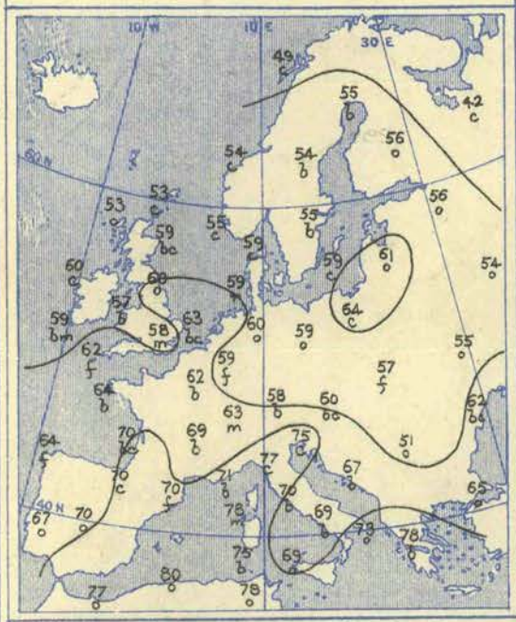
Temperature fallen in the north of our Islands and in Scandinavia, risen at our own southern stations, changed irregularly elsewhere. Highest, 81° at Barcelona, Palma and Sfax, 80° at Patras, and 79° at La Calle; above 70° at the Mediterranean and Adriatic stations generally and above 65° at some of the English Channel stations. Lowest, (1) 41° at Archangel; (2) 51° at Sumburgh Head and 52° at Stornoway and Bodö. Rising during day to 75° and upwards over central and southern England, to 80° in London and to 81° at Loughborough; exceeding 85° in many parts of France and southern Europe, and reaching 93° at Bordeaux.

Wind light to moderate from the Eastward or North-Eastward over the south of our Islands and also over France and northern Italy, but from the Northward over the northern parts of England and Ireland. Light from West or North-West in Scotland, and strong from the same quarters at many of the Scandinavian and Danish stations; Southerly over Finland and the Baltic provinces. Variable over Austria, Germany, and southern Italy. No important change occurring during day.

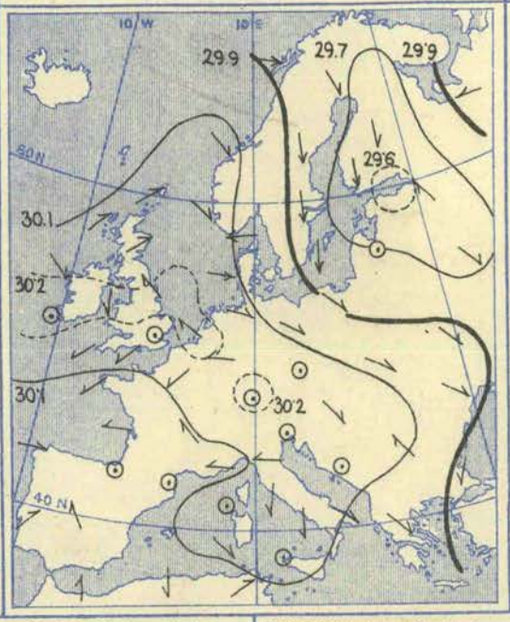
Barometer highest, 30·3 ins. and upwards over Ireland and the northern and central parts of Great Britain; 30·2 ins. and upwards in an anticyclone covering the whole of our Islands, the North Sea, the Netherlands, Germany, and Switzerland. Lowest, 29·7 ins. and less in a depression over the northern part of the Gulf of Bothnia. Anticyclone giving way slowly during day; depression moving eastwards but well marked secondary system developing over the Gulf of Finland.

Saturday, 24th August.

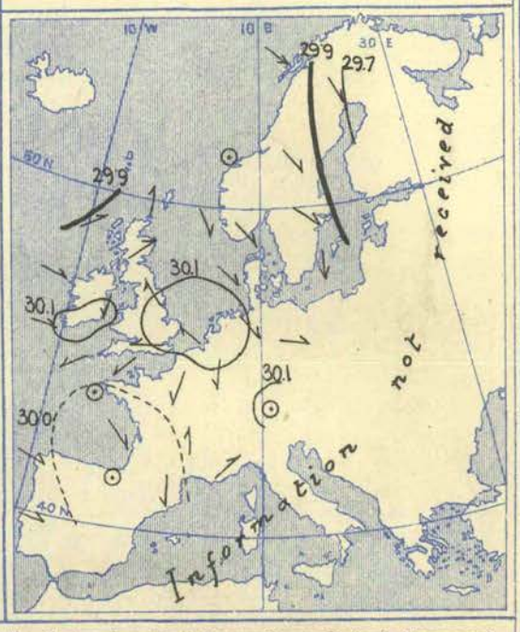
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and southern Europe generally, but cloudy and misty at several of the English stations; dull also over the Spanish peninsula, with fog at Corunna. Fine in Sweden, but dull in most of the other northern and eastern countries, with rain at Fanö and Memel. Rain falling later in the extreme north and north-west of our Islands (heavily in the Shetlands and Hebrides), and also in the west and south of France, with a thunderstorm at Biarritz.

Temperature risen over the central parts of the Continent, changed very irregularly elsewhere. Morning readings highest, 80° at Algiers, 78° at Patras and La Calle, and 77° at Leghorn and Nemours; above 70° in many parts of southern Europe, and just touching that point in the Channel Islands and the west of France. Lowest, 42° at Archangel, 49° at Bodö, and 53° at Sumburgh Head and Stornoway. Rising during day to 75° and upwards in many parts of England and Ireland, and to 79° in London; exceeding 80° in the Channel Islands, and exceeding 85° in France, the highest readings reported being 91° at Rochefort and Lyons, and 90° at Lorient.

Wind light to moderate from the Eastward or North-Eastward over England, France and Belgium; variable in the south of Ireland; light from between South and West over Scotland and the north of Ireland. Northerly or North-Westerly over the greater part of northern and eastern Europe, and also in Greece and Italy, and strong in force in Sweden; Southerly over the Spanish peninsula, subsequently shifting to the North-Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards over Ireland, Wales, the northern and central parts of England and the Netherlands; 30·1 ins. and upwards in anticyclone covering the greater part of western and central Europe and extending southwards over Italy and the adjacent portions of the Mediterranean. Lowest, 29·6 ins. and less in a depression with its centre over the Gulf of Finland. Anticyclone giving way slowly during day and new depression advancing at night towards the north of Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the distribution of pressure was somewhat irregular. Two anticyclones were observed—one over central Europe and the other over central Russia, the lowest pressures being found (1) in a small depression with its centre over the Shetlands, and (2) in a large shallow area lying over Turkey, Asia Minor and the eastern parts of the Mediterranean generally. In addition to these two latter systems a shallow depression was situated off our own extreme south-west coasts.

A simpler form of distribution was however soon brought about, firstly by the dispersal of the various high and low pressure systems originally observed, and secondly by the advance of a new anticyclone from the Atlantic, the latter area spreading gradually over the whole of western and central Europe. The central portion of the system was located for the most part directly over our Islands, so that while light to fresh breezes from the Eastward or North-Eastward prevailed over England, France, and the western portions of central Europe, the wind in our own northern districts was light from between South and West. The weather was exceedingly fine over the western, central and southern countries generally, and in our Islands the amount of bright sunshine was exceptionally large. Towards the close of the week the anticyclone began to disperse gradually, and on the night of the 24th a well-marked depression appeared off the north of Scotland, the wind consequently shifting to the Westward or South-Westward over nearly the whole of the United Kingdom, with unsettled weather in the extreme north.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	38·8	+12·5	38	+12	BRIGHTON	85·7	+38·2	87	+38
STRATHPEFFER SPA	43·0	+15·8	42	+15	WORTHING	86·4	?	88	?
EDINBURGH	51·3	+19·6	50	+19	BOGNOR	87·0*	?	89*	?
MORPETH	65·2	?	65	?	WATERGATE (Emsworth)	83·8	?	86	?
NEWCASTLE-ON-TYNE	52·8	?	52	?	WESTBOURNE (Emsworth)	85·8*	+40·0	88*	+41
OSWALDKIRK (Yorkshire)	65·9	+25·7	66	+36	VENTNOR HOSPITAL	79·0	+32·9	81	+35
YORK					BOURNEMOUTH	86·7	?	88	
LOWESTOFT		?		?	SOUTHPORT	83·8	?	84	?
HOLLESLEY BAY	72·3	?	73	?	RHYL	*	?	*	?
SHEFFIELD	60·7	?	61	?	COLWYN BAY		?		?
WORKSOP	64·6	+32·4	65	+33	ABERDOVEY	80·5*	?	81*	?
THURCASTON (Leicestershire)	71·2	+35·2	72	+36	TENBY	84·2	+40·5	85	+42
MARGATE	77·4	+36·2	79	+37	NEWQUAY	83·1	+36·8	85	+39
BROADSTAIRS	73·6	?	75	?	TORQUAY	79·5	+33·5	81	+34
EASTBOURNE	85·1	+39·8	87	+41	CAHIR (Duneske)	68·0	?	69	?
					GUERNSEY	82·6*	+28·3	84*	+29

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 35.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 31ST, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 206.)	Observed during the Week.					Accumulated.							
				Averages of				For the Week.				From December 30th, 1900			
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	39	58·5	47·3	52·5	1 below	74	− 6	0	− 1	1735	+249	561	− 2
	1. SCOTLAND, EAST	78	38	61·6	46·4	53·6	1 below	81	− 9	0	0	1889	+107	657	+45
	2. ENGLAND, N.E.	81	41	65·7	49·3	57·0	0 (average)	105	+ 3	0	0	2091	+165	516	+ 9
	3. ENGLAND, EAST	84	42	66·3	51·2	58·4	0 (average)	115	+ 1	0	0	2279	+ 45	560	+ 8
	4. MIDLAND COUNTIES	82	43	64·7	50·5	57·2	1 below	106	− 3	0	0	2326	+ 97	591	+32
	5. ENGLAND, SOUTH	84	44	66·3	52·3	58·9	1 below	118	− 6	0	0	2392	− 35	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	44	60·7	48·0	54·0	2 below	84	−10	0	0	1988*	+ 96	470	+36
	7. ENGLAND, N.W.	81	42	62·7	50·8	56·4	1 below	101	− 5	0	0	2167	+107	453	+44
	8. ENGLAND, S.W.	81	41	64·1	52·0	57·7	1 below	110	− 3	0	0	2368	+112	369	+51
	9. IRELAND, NORTH	71	39	60·0	49·3	54·3	2 below	86	−12	0	0	1966	− 38	374	+11
	10. IRELAND, SOUTH	76	43	62·7	51·7	56·7	1 below	133	− 4	0	0	2270	− 8	325	+63
	—CHANNEL ISLANDS	76	50	66·8	55·7	60·9	0 (average)	132	− 1	0	0	2648	+ 74	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 206.)	Rainfall. For the Week.			Rainfall. From December 30th, 1900.				Bright Sunshine. For the Week.				Bright Sunshine. From December 30th, 1900.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	4 more	151	+ 3	25·5	− 4·5†	32	+ 7	32	+ 7	1011	+126	31	+ 4
	1. SCOTLAND, EAST	5	8	1 more	125	− 2	18·0	− 1·8	40	+ 9	40	+ 8	1163	+148	35	+ 4
	2. ENGLAND, N.E.	4	12	6 more	111	− 7	14·3*	− 1·7	46	+15	47	+17	1230	+215	37	+ 6
	3. ENGLAND, EAST	5	8	3 more	106	−12	12·3	− 3·5	42	+ 3	44	+ 3	1419*	+160	42	+ 5
	4. MIDLAND COUNTIES	5	10	4 more	105	− 9	17·3	− 0·4	37	− 1	39	0	1206	+153	39	+ 5
	5. ENGLAND, SOUTH	4	10	4 more	96	−14	15·5	− 1·6	44	+ 2	47	+ 1	1459	+183	45	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	13	2 more	129	− 9	27·7	− 4·0	51	+20	53	+20	1251	+186	38	+ 5
	7. ENGLAND, N.W.	6	13	5 more	119	− 4	17·0	− 4·1	43	+15	45	+15	1351*	+246	41	+ 8
	8. ENGLAND, S.W.	5	7	1 less	106	−22†	21·7	− 2·9	29	−14	31	−14	1392	+103	43	+ 3
	9. IRELAND, NORTH	5	13	5 more	144	− 4	21·6	− 1·1	33	+ 5	35	+ 6	1066	+ 92	33	+ 3
	10. IRELAND, SOUTH	5	9	0 (average)	117	−17	20·9	− 4·8	25	− 7	26	− 8	1172	+ 71	36	+ 2
	— CHANNEL ISLANDS	4	3	3 less	123	− 4	18·4	− 0·6	53	+ 9	55	+ 9	1517	+ 45	48	+ 1

* This value has been altered owing to the receipt of further information for a preceding week.
† The corresponding values in last week's report should read "− 4·5" and "− 23" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather at the commencement of the week was fine and very warm in all parts of the Kingdom except the extreme north and north-west, where it had become dull, rainy and cool. This change spread very quickly over the the whole country, and during the remainder of the period the weather was of an unsettled character, rain alternating with intervals of comparatively clear sky. Heavy rain, and in some places thunder, was experienced on Sunday or Monday in many parts of England, and considerable rain in London on Tuesday evening.

Temperature, after being very high on Sunday, fell rapidly, so that the average for the week was rather below the mean in most districts. The highest of the maxima (registered on the 25th) varied from 84° in England E. and S., and above 80° in all the other English districts to 78° in Scotland E., 71° in Ireland N., and 70° in Scotland N. The lowest of the minima were recorded during the middle of the week, and ranged from 38° in Scotland E., 39° in Scotland N. and Ireland N., to 44° in England S. and Scotland W. and to 50° in the Channel Islands.

Rainfall was more than the mean in all districts excepting Ireland S., England S.W., and the Channel Islands. In most parts of the Kingdom the excess was rather large. At Scarborough the fall during a thunderstorm on Monday was as much as 1·94 ins.

Bright Sunshine exceeded the mean in most districts, but was deficient in England S.W. and Ireland S. The percentage of the possible duration ranged from 55 in the Channel Islands, 53 in Scotland W., and 47 in England N.E. and England S., to 32 in Scotland N., 31 in England S.W., and 27 in Ireland S.

Barometer and Wind.—At the commencement of the period a well-defined depression had appeared over the north of Scotland, and after moving southwards to the north-east of England, travelled slowly eastwards over the North Sea and finally dispersed over Scandinavia. This system caused the wind, which had been light from South and South-West, to veer quickly to North-West or North, and to blow strongly on all our coasts, and a gale at several of our northern and western stations. During the passage eastwards of this disturbance an anticyclone spread over the Bay of Biscay from the south-westward, subsequently moving eastwards over France, but our Islands were affected by some ill-defined secondary depressions.

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II.—DATA from which the SUMMARY on page 205 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	44	54·0	47·3	50·5	− 1·4	60	0	6	1·45	+ 0·67	*	*	*	*
	Stornoway	60	42	56·4	46·7	51·3	− 1·9	65	0	7	1·76	+ 0·87	46·7	+18·9	47	+19
	Wick	69	40	59·4	47·0	52·8	− 0·7	76	0	7	1·32	+ 0·72	*	*	*	*
	Lairg ℌ	70	39	63·1	45·1	53·5	+ 0·2	81	0	6	0·74	+ 0·06	*	*	*	*
	Glencarron ℌ								0				*	*	*	*
	Fort Augustus ℌ	63	41	59·9	48·1	53·7	− 1·5	82	0	7	1·14	+ 0·33	27·5	+ 8·2	28	+ 8
	Fort William ℌ	62	43	58·0	49·3	53·4	− 2·1	80	0	5	1·00	− 0·48	29·2	+ 6·7	30	+ 7
1. SCOTLAND, E.	Nairn	71	41	59·9	47·1	53·1	− 1·9	78	0	5	0·49	− 0·11	*	*	*	*
	Aberdeen	71	44	59·7	48·9	54·0	− 0·7	84	0	6	0·41	− 0·26	37·2	+ 2·7	38	+ 5
	Braemar ℌ	68	39	57·5	43·9	50·3	− 1·6	58	0	6	0·68	− 0·14	*	*	*	*
	Ochtertyre ℌ	74	38	64·7	46·1	54·8	− 0·7	90	0	4	0·38	− 0·47	*	*	*	*
	Leith	78	45	65·3	48·6	56·5	− 0·4	102	0	4	0·91	+ 0·34	*	*	*	*
	Marchmont ℌ	75	40	62·7	43·7	52·6	− 2·0	74	0	3	2·02	+ 1·24	42·3	+10·5	43	+10
2. ENGLAND, N.E.	Alnwick Castle	81	42	65·6	47·5	56·0	+ 0·6	98	0	5	1·20	+ 0·52	*	*	*	*
	Durham	76	44	65·9	47·1	55·9	− 0·5	97	0	3	0·82	+ 0·24	44·4	+13·5	46	+14
	Shields	79	44	64·7	48·9	56·3	0·0	100	0	4	1·08	+ 0·48	*	*	*	*
	Scarborough ℌ	79	44	66·5	48·9	57·2	0·0	106	0	5	2·32	+ 1·72	45·0	?	46	?
	Spurn Head	71	48	65·3	53·3	58·9	+ 0·5	118	0	4	0·85	+ 0·43	*	*	*	*
	Fulbeck (Lincolnshire)	81	41	66·1	50·1	57·6	− 0·2	109	0	5	0·73	+ 0·20	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	82	45	67·6	50·0	58·3	− 0·1	114	0	5	1·00	+ 0·38	43·5	+ 6·5	45	+ 7
	Yarmouth	69	45	54·3	52·1	57·8	− 0·2	111	0	5	0·42	− 0·11	*	*	*	*
	Geldeston	72	42	66·4	49·5	57·4	− 1·2	108	0	4	0·60	+ 0·11	42·3	+ 2·3	45	+ 2
	Cambridge	84	45	68·8	51·3	59·5	+ 0·1	123	0	4	0·67	+ 0·16	42·5	+ 3·2	44	+ 3
	Felixstowe	69	46	65·5	53·6	59·2	+ 0·8	120	0	5	0·87	?	40·4†	?†	42†	?†
	Rothamsted	80	44	65·3	50·4	57·4	− 0·6	108	0	6	1·26	+ 0·69	39·5	+ 0·1	41	0
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	81	45	67·3	52·4	59·4	+ 1·8	122	0	3	0·43	− 0·09	*	*	*	*
	Loughborough	82	45	66·1	50·9	58·0	− 0·8	112	0	4	0·87	+ 0·31	*	*	*	*
	Colly Weston (Stamford)	82	44	65·0	50·1	57·1	− 1·2	106	0	5	1·01	?	*	*	*	*
	Cheadle ℌ	79	45	63·8	49·0	56·0	− 0·1	98	0	6	1·12	+ 0·34	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	80	46	63·6	50·5	56·7	− 0·9	103	0	4	1·32	+ 0·70	28·5	?	30	?
	Churchstoke ℌ								0							
	Hereford (Belmont) ℌ	78	43	63·8	50·7	56·9	− 1·3	104	0	6	1·06	+ 0·49	*	*	*	*
	Cirencester	80	43	63·4	49·7	56·1	− 0·9	99	0	6	1·33	+ 0·63	33·3	− 4·3	35	− 4
	Oxford	82	44	64·6	50·4	57·1	− 2·0	106	0	5	1·01	+ 0·47	33·7	− 5·3	35	− 6
5. ENGLAND, S.	London	84	46	68·7	51·6	59·6	− 0·7	123	0	4	1·49	+ 0·97	38·7†	+ 3·2†	40†	+ 3†
	Swarraton (Alresford) ℌ	80	45	64·7	50·2	57·0	− 0·4	105	0	5	1·30	+ 0·65	*	*	*	*
	Dungeness	71	47	67·0	53·9	60·1	− 0·4	127	0	4	1·22	+ 0·73	44·7	?	47	?
	Hastings (St. Leonards)	77	46	67·0	52·1	59·1	− 1·2	120	0	4	1·40	+ 0·82	52·7	+ 8·2	55	+ 8
	Southampton	76	46	68·0	52·7	59·9	− 0·6	125	0	4	0·93	+ 0·31	40·7	− 2·5	43	− 2
	Portland Bill	70	51	63·7	55·3	59·3	− 0·6	121	0	2	0·15	?	*	*	*	*
	Shaftesbury ℌ	77	44	64·7	50·3	57·1	− 1·0	106	0	4	0·73	+ 0·01	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	46	57·5	48·3	52·6	− 3·1	74	0	6	1·46	+ 0·06	*	*	*	*
	Glasgow	72	47	61·5	49·1	54·9	− 0·3	90	0	2	0·94	+ 0·04	53·2	+26·9	54	+27
	Glenlee ℌ	70	44	62·0	45·8	53·4	− 1·8	80	0	6	1·32	+ 0·22	*	*	*	*
	Douglas (Isle of Man)	68	45	61·9	48·8	54·9	− 0·8	90	0	5	1·39	+ 0·51	49·4	+12·9	51	+13
7. ENGLAND, N.W.	Newton Reigny	74	42	62·6	46·9	54·3	− 1·1	86	0	6	1·12	?	45·8	?	47	?
	Stonyhurst	76	47	61·8	50·0	55·6	− 0·9	95	0	5	1·24	+ 0·07	49·6	+18·1	51	+18
	Blackpool ℌ	77	47	62·9	51·2	56·7	− 0·9	103	0	6	1·35	+ 0·55	54·6	+22·3	56	+23
	Manchester (Prestwich)	80	45	64·6	50·0	56·9	+ 0·1	104	0	6	1·34	+ 0·45	43·1	?	44	?
	Liverpool Obsy. (Bidston)	77	49	62·0	52·4	56·9	− 1·4	104	0	6	1·36	+ 0·66	38·8	?	40	?
	Chester (Hawarden Bridge)	81	49	64·3	51·6	57·6	− 1·1	109	0	6	1·13	?	*	*	*	*
	Llandudno ℌ	77	51	63·6	53·4	58·2	− 0·5	113	0	4	1·24	+ 0·58	39·0	+ 5·2	41	+ 6
	Holyhead	67	50	59·7	51·0	55·1	− 3·0	92	0	5	1·39	+ 0·69	*	*	*	*
8. ENGLAND, S.W.	Llandovery	79	41	63·6	49·1	55·9	− 1·5	97	0	7	1·78	+ 0·70	*	*	*	*
	Pembroke	68	50	61·7	53·9	57·6	− 0·6	109	0	6	0·55	− 0·15	31·3	− 8·9	33	− 9
	Clifton												*	*	*	*
	Bath	81	45	65·4	51·6	58·1	− 1·5	113	0	4	0·73	?	33·6	?	35	?
	Arlington (N. Devon)	74	47	62·6	50·1	56·0	− 1·2	98	0	6	1·21	+ 0·06	*	*	*	*
	Cullompton ℌ	79	45	66·9	49·8	57·8	− 1·4	111	0	4	0·27	− 0·41	27·6	−10·9	29	−11
	Falmouth	69	51	64·5	54·5	59·2	0·0	120	0	4	0·31	− 0·56	30·4	−14·0	32	−14
	Plymouth	68	52	64·0	55·2	59·3	− 0·4	121	0	3	0·21	− 0·49	25·4	−16·1	27	−17
9. IRELAND, N.	Malin Head	60	49	57·3	51·1	54·0	− 2·5	84	0	5	1·96	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	63	39	59·1	47·1	52·7	− 2·3	75	0	4	1·34	+ 0·49	*	*	*	*
	Blacksod Point	62	50	59·6	53·3	56·3	− 0·9	100	0	6	1·58	?	*	*	*	*
	Markree Castle	65	44	60·8	47·7	53·9	− 1·5	83	0	4	1·48	+ 0·55	33·6	+ 6·3	35	+ 6
	Armagh	67	43	61·6	47·3	54·0	− 1·9	84	0	4	0·78	+ 0·07	33·1	+ 5·2	34	+ 5
	Donaghadee	71	46	61·4	49·3	55·0	− 1·2	91	0	6	0·60	− 0·11	*	*	*	*
10. IRELAND, S	Dublin	76	44	64·2	50·3	56·8	− 1·2	104	0	4	0·95	+ 0·33	36·4	+ 0·9	38	+ 1
	Parsonstown	68	43	62·4	48·9	55·3	− 1·4	93	0	5	1·30	+ 0·50	25·8	− 5·2	27	− 5
	Kilkenny	72	43	62·9	48·6	55·3	− 2·2	93	0	6	0·68	− 0·05	*	*	*	*
	Roche's Point	65	50	62·6	53·6	57·8	− 0·4	111	0	4	0·20	− 0·57	*	*	*	*
	Valencia	66	51	62·4	53·7	57·8	− 0·4	111	0	7	0·94	− 0·14	16·3	−16·9	17	−18
	Killarney	?	50	?	53·8	?	?	?	0	3	0·41	− 0·61	*	*	*	*
	Foynes	67	48	61·8	52·8	57·0	− 0·3	105	0	5	1·54	+ 0·68	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	53	65·9	56·1	60·7	+ 0·7	131	0	4	0·14	− 0·48	38·3	?	40	?
	Jersey	76	50	67·6	55·3	61·1	− 0·9	134	0	4	0·42	− 0·20	60·2	+ 9·2	63	+ 8

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

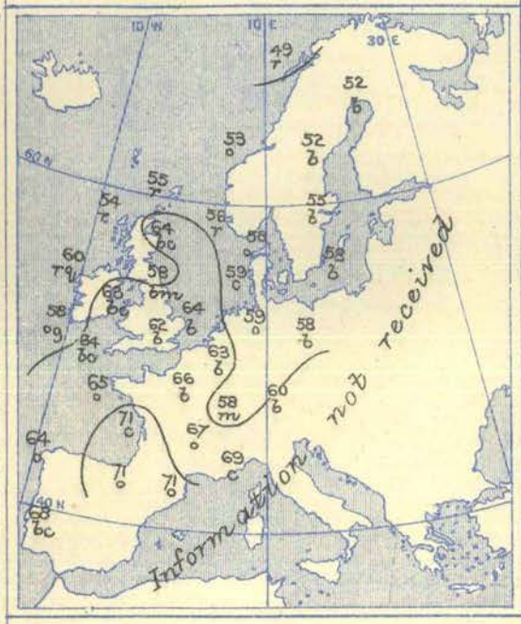
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

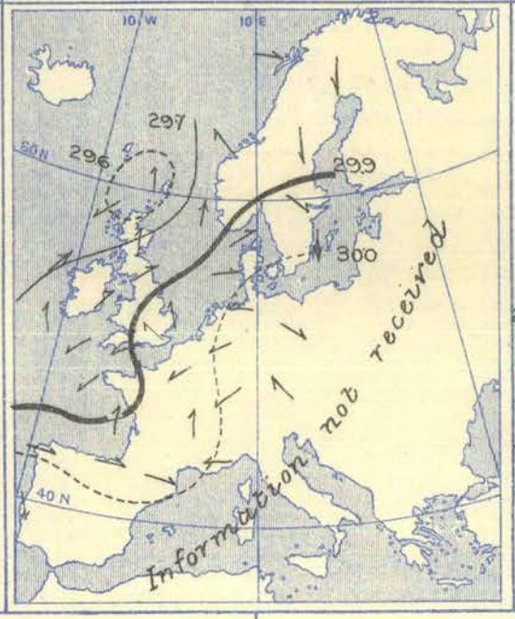
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 25th August.

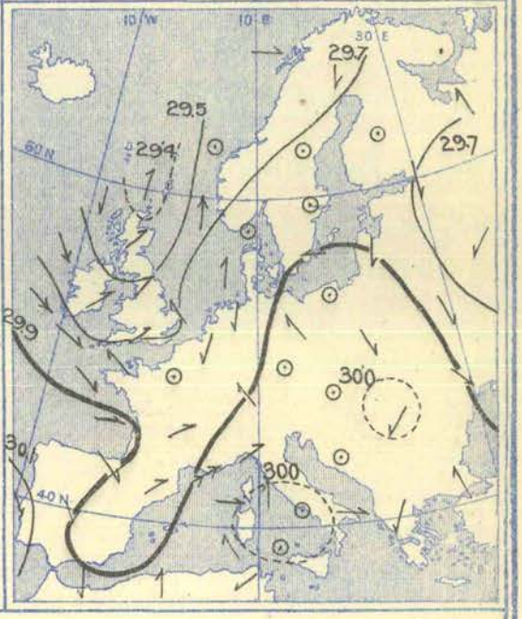
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Baltic, Germany and France. Fair, but not settled looking, over the greater part of England, rainy in the north of Scotland, the extreme west of Ireland and the west of Norway. Rain later in all parts of the British Isles and over the greater part of France and west of Norway (particularly heavy over London at about 2 a.m. on Monday, and at Stornoway, Spurn Head and Biarritz).

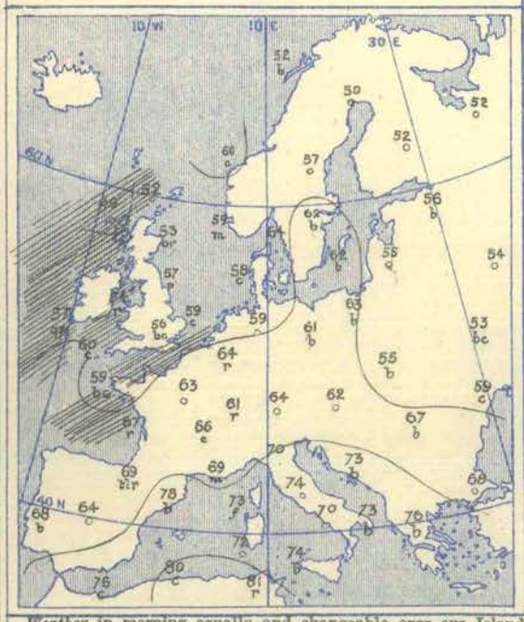
Temperature changing rather fitfully over the north-western countries and much exceeding 60° on our north-east, east, and south-eastern coasts at 8 a.m., 67° at Lyons, 71° in the south-west of France—rising later to between 82° and 84° over England to 81° at Berlin, Lorient, and Nice, 86° to 88° in Italy, 95° at Algiers. Subsequently falling rapidly over England.

Wind light and variable. Anticyclonic over Germany, Easterly over France, South-Easterly over the eastern half of England; South-Westerly over the greater part of Ireland and Scotland, South-Easterly at Christiansund, but North-Easterly at Stornoway. Subsequently shifting to North and North-West at many of the northern and western stations in the British Islands, and the change spreading Eastwards.

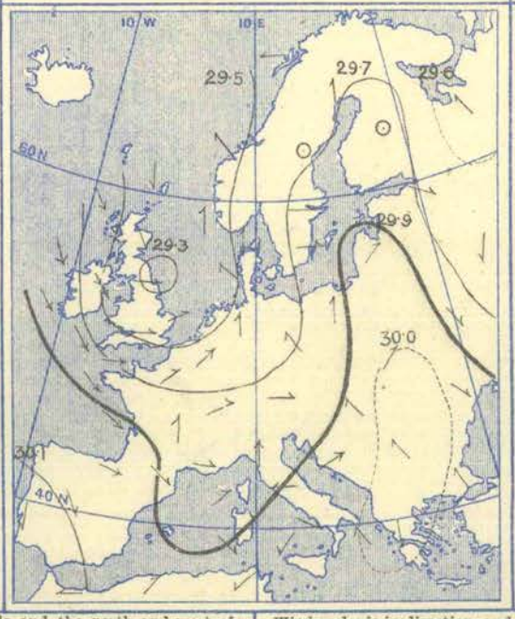
Barometer highest, 30·0 ins. and more over Germany, but height decreasing to Lowest, 29·6 ins. and less in the north of Scotland and the Shetlands, and less than 29·9 ins. in a secondary over Brittany. Falling greatly during the day and depression in the north moving south-south-eastwards down our north-east coasts.

Monday, 26th August.

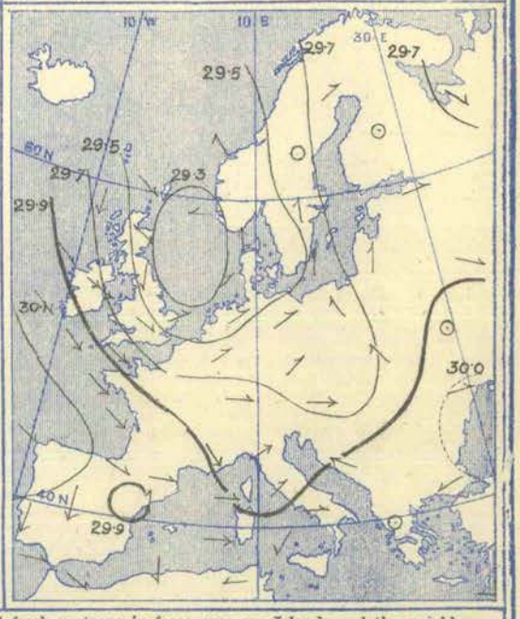
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning squally and changeable over our Islands and the north and west of France, with rain or passing showers in most places and a thunderstorm at Biarritz. Fine at most of the Continental stations, but cloudy over northern Europe and also in Denmark. Rain later over our Islands and France, and thunderstorms over the north-eastern and eastern districts of England, at Fanö and Cuxhaven, and at Lyons, where as much as 2·1 ins. of rain was measured.

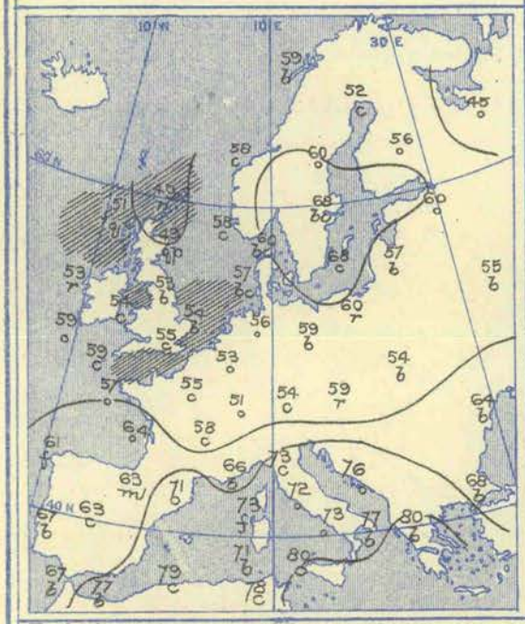
Temperature fallen over the United Kingdom and France, but risen in Scandinavia and Germany. Morning readings highest, 82° at Sfax, 81° at La Calle, 80° at Algiers, 78° at Barcelona, 77° at Leghorn, and 76° at Athens and Patras. Lowest, (1) 55° at Haparanda, 52° at Helsingfors and Archangel, and 53° at Uleaborg. (2) 49° at Stornoway, and 52° at Sumburgh Head and Nairn. Rising during day to 68° at Spurn Head, and 65° at Wick and Jersey. Much higher maxima recorded at the Continental stations. Thermometer exceeding 70° over Germany, Austria and the south of Sweden, reaching 82° in the south of France, 86° at Cagliari and Palermo, and touching 90° at several Algerian stations.

Wind cyclonic in direction, and fresh or strong in force over our Islands and the neighbouring parts of the Continent, being Northerly or North-Westerly in the west and north, and also in the west of France, with a gale in the Irish Sea and the north of Ireland, Westerly in the south and east of England, South-Westerly over the Netherlands and the north-east of France, but variable over the Continent generally. No important change later, but increasing to a moderate to fresh gale at the Channel stations.

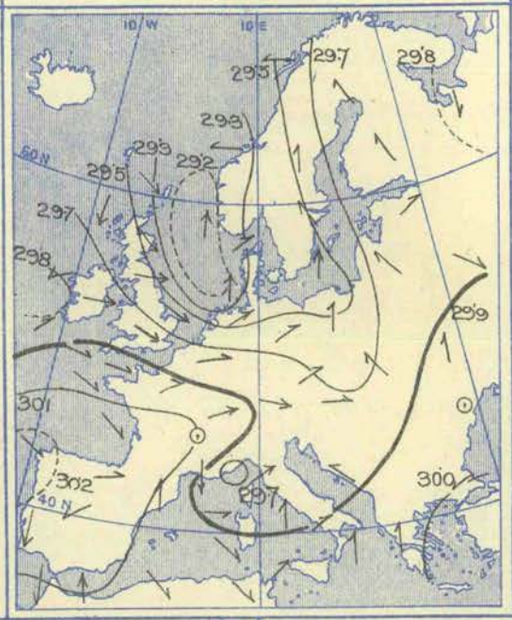
Barometer highest, 30·1 ins. and upwards over the south-western part of the Spanish Peninsula, and 30·0 ins. and upwards over the Balkan provinces. Lowest, 29·3 ins. and less in the centre of a somewhat deep depression off the north-east coast of England, and 29·6 ins. and less in a very shallow system over northern Russia. Depression off our north-eastern coasts moving eastwards to the North Sea later. No material change elsewhere.

Tuesday, 27th August.

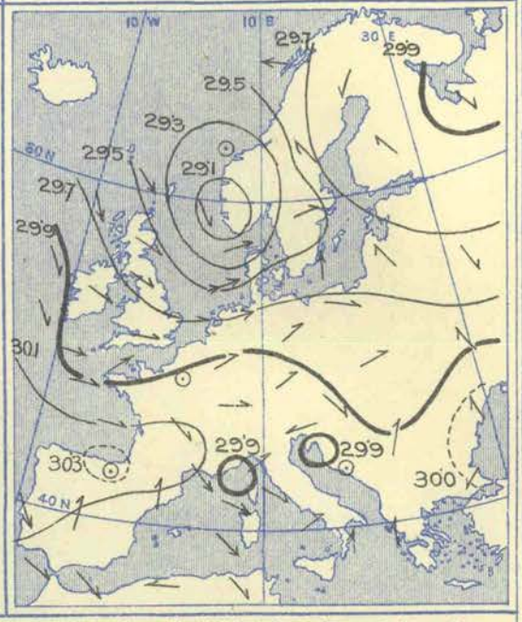
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over our Islands and to the eastward of the North Sea, with rain at many of our northern and western stations, and also at Karlstad and Brussels, and in several parts of Germany, fair or fine elsewhere. Rain later over our Islands, and on the Continent generally, heavily at our south-eastern stations, as much as 1·15 ins. measured in a little over two hours at Hastings.

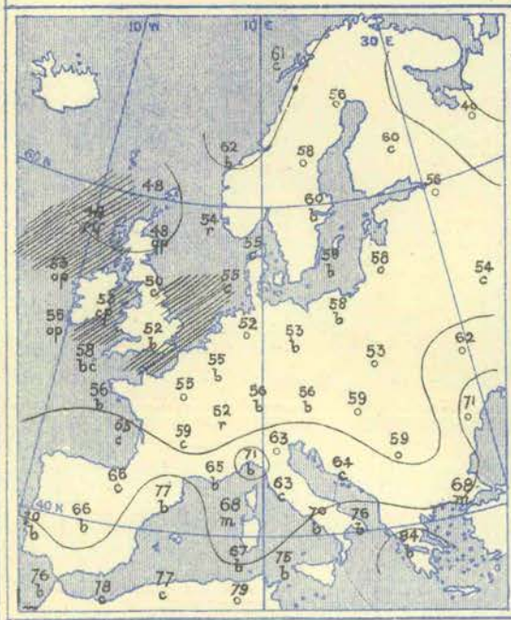
Temperature fallen somewhat over our Islands, but risen on the Continent generally. Morning readings highest, (1) 80° at Palermo and Patras, 79° at Algiers, 78° at La Calle, and 77° at Nemours, Brindisi and Athens, above 70° over the Mediterranean generally; (2) 68° at Stockholm and Wisby, and 65° at Memel. Lowest, (1) 45° at Archangel, 52° at Uleaborg, and 55° at Haparanda; (2) 49° at Sumburgh Head and Aberdeen, 50° at Wick, and 51° at Stornoway. Rising during day to 60° and upwards over our Islands, and also at the German station, to above 70° in many parts of France, and exceeding 80° over Spain and Italy, the highest readings of all being 91° at Brindisi, and 93° at Palermo.

Wind Northerly (strong) at the Scotch stations, North-Westerly to Westerly (strong) over England, Southerly on the eastern shores of the North Sea, and chiefly Westerly over France. In the south of Ireland it had backed to the South-Westward, while at Blacksod Point it was light from East. A cyclonic circulation of strong winds prevailing over the Mediterranean, but calms or light variable breezes reported elsewhere. Veering to the Northward later at all our western stations, no important change elsewhere.

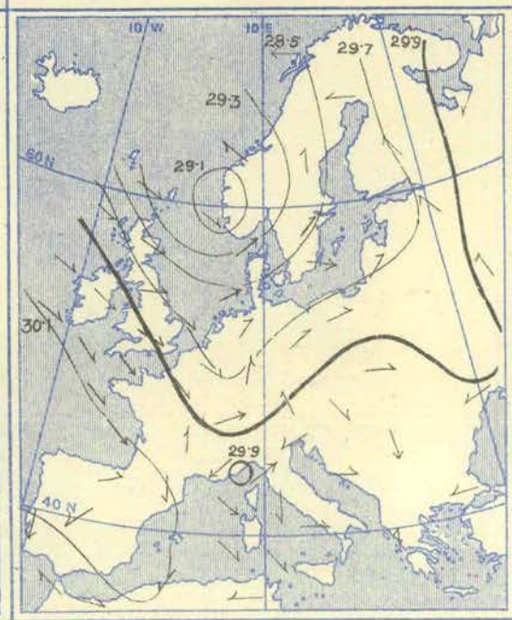
Barometer highest, 30·2 ins. and upwards over Portugal, and 30·0 ins. and upwards over south-eastern Europe. Lowest, 29·2 ins. and less in a depression lying over the North Sea, 29·7 ins. and less in a small disturbance over the Gulf of Genoa and northern Italy, and also in a very shallow system near the White Sea, and 29·8 ins. and less off the west of Ireland. Depression over North Sea moving eastwards later, that in the west passing over our southern district as a "V"-shaped subsidiary. No material change elsewhere.

Wednesday, 28th August.

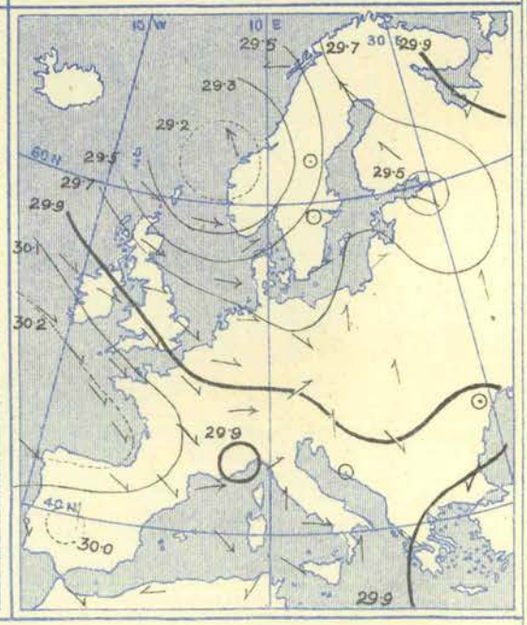
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very changeable over our Islands and the neighbouring parts of the Continent, with rain at several of our northern and western stations, over the Netherlands, and at Skudesnaes and Belfort, but fair or fine over the greater part of the Continent. Rain later at our western and north-western stations and also over Germany and the countries lying to the eastward of the North Sea.

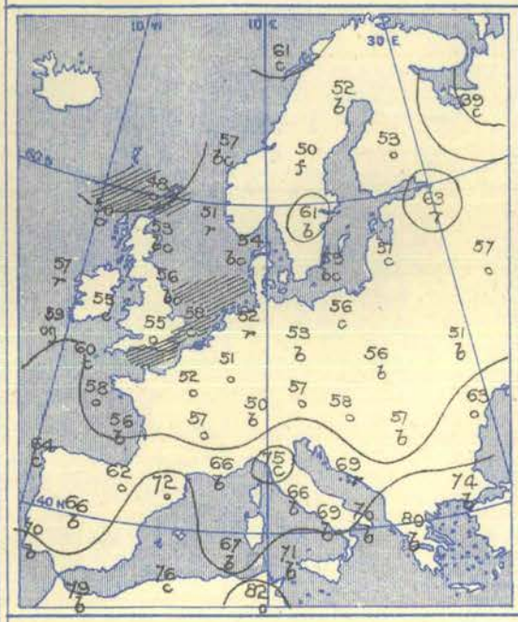
Temperature fallen a little over our Islands and on the Continent generally. Morning readings highest, 84° at Athens, 79° at La Calle, 78° at Oran, 77° at Algiers and Barcelona, and 76° at Brindisi and San Fernando. Lowest, (1) 40° at Archangel and 54° at Moscow; (2) 47° at Wick, 48° at Sumburgh Head, Stornoway, and Aberdeen, and 49° at Nairn. The maximum temperature in our Islands touched 65° at Dungeness only, but rose to above 70° in France and Italy, and reached 80° at Perpignan, 81° at Nice, and 88° at Palermo. Over Algeria still higher readings were recorded, the thermometer rising to 90° at Tunis and 91° at Sfax.

Wind North-Westerly over the United Kingdom, and also over France, blowing a gale at Wick and freshly or strongly in most places, Southerly in Germany, Denmark, and Scandinavia, and fresh or strong in force, light and variable in most other places, but strong from South-West or West over the Gulf of Genoa. No important change later.

Barometer highest, 30·1 ins. and upwards over the Bay of Biscay, the Spanish Peninsula and off our south-west coasts. Lowest, 29·1 ins. and less in a depression over the west of Norway, 29·6 ins. and less in a small subsidiary disturbance over the Netherlands, and 29·9 ins. and less in a shallow system lying over the Gulf of Genoa. Depression off Norwegian coast moving slowly northwards later and commencing to fill up, and new disturbance of no great depth forming over the Gulf of Finland.

Thursday, 29th August.

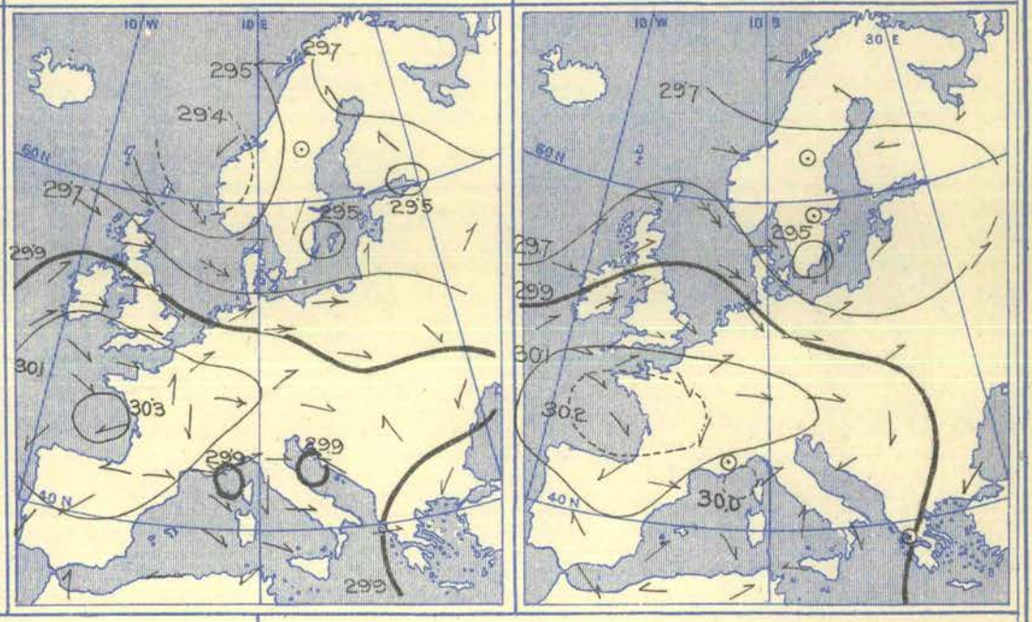
Temperature and Weather. 8 a.m.



Weather in morning (1) fine over the greater part of our Islands (especially in the east), dull in the south, rainy in the north-west and centre of Ireland; (2) dull in the west of France and over Germany, very variable elsewhere, rainy at Skudesnaes, St. Petersburg, Lemberg, and Lesina. Rain later in our Islands over all but the southern districts, heavy in places; and several falls over Germany. France and the south of England remaining fair.

Temperature risen a good deal over England, fallen over the Continent. Morning readings highest, (1) 79° to 70° on the southern shores of the Mediterranean, 71° at Bilbao; (2) 63° (locally) at St. Petersburg, 61° at Bodö. Lowest, 39° at Archangel, 48° at Sumburgh Head, 50° at Stornoway. Rising later to 68° at Stockholm, 64° at Christiansund, 67° to 60° over our Islands generally, 70° at Brest, 72° at Biarritz, and 81° at Perpignan.

Barometer and Wind. 8 a.m. 6 p.m.

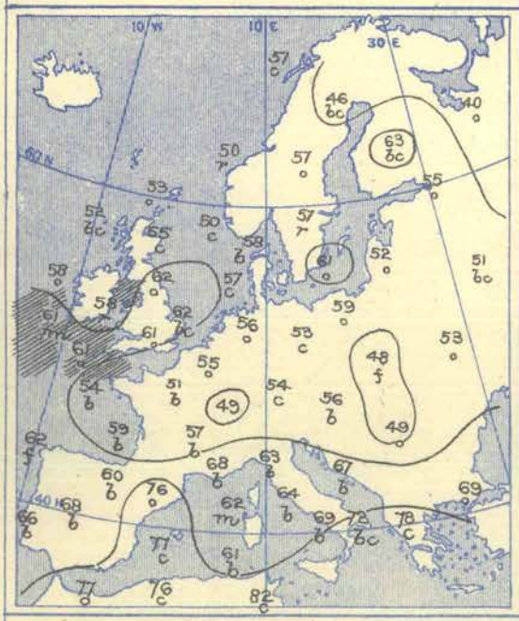


Wind (1) Westerly to North-Westerly, strong, over Great Britain and the east of Ireland, South-Westerly on the western Irish coast, Westerly, strong to a gale, in north Germany; (2) South-Easterly to Easterly over northern Europe, very variable at the Mediterranean stations; (3) North-Easterly over Spain. Backing later over Great Britain (especially in the north), but moderating generally over the Continent; (4) light and anticyclonic over the south-western countries—excepting Spain.

Barometer highest, 30·3 ins. to 30·1 ins. in an anticyclonic system over France, the south of Germany, and the south of England. Lowest, 29·4 ins. and less in the west of Norway, and 29·5 ins. and less at Stockholm, and below 29·9 ins. over the northern parts of the Mediterranean and the Adriatic. Rising later over France and Germany. Changing very irregularly over Scandinavia.

Friday, 30th August.

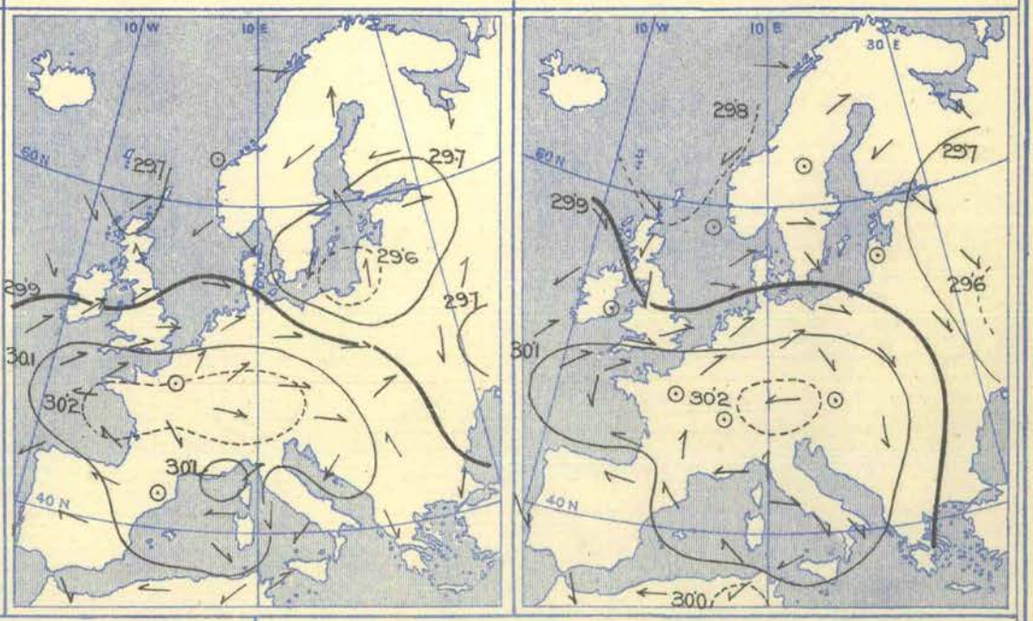
Temperature and Weather. 8 a.m.



Weather in morning fair in Scotland, rainy in the north and north-west of England and in the north-west of Norway; dull at our southern stations: fine over France and also in Sweden. Rain later in our Islands (except in the extreme south), as well as over the countries lying to the eastward of the North Sea, but none in France or Spain. The fall heavy at Cuxhaven, Holyhead and Parsonstown.

Temperature risen a little over the British Islands. Morning readings ranging from between 79° and 70° over the southern and western shores of the Mediterranean, and a little above 60° at some of the stations in our Islands and at Wisby and Kuopio (Finland) to 50° at Christiansund, 46° at Haparanda and 40° at Archangel; over central Europe readings but little above 50°. Rising later to between 60° and 70° in several parts of our Islands and touching 84° at Biarritz, 82° or 83° in various parts of Italy, 86° at Tunis and 96° at Aumale.

Barometer and Wind. 8 a.m. 6 p.m.

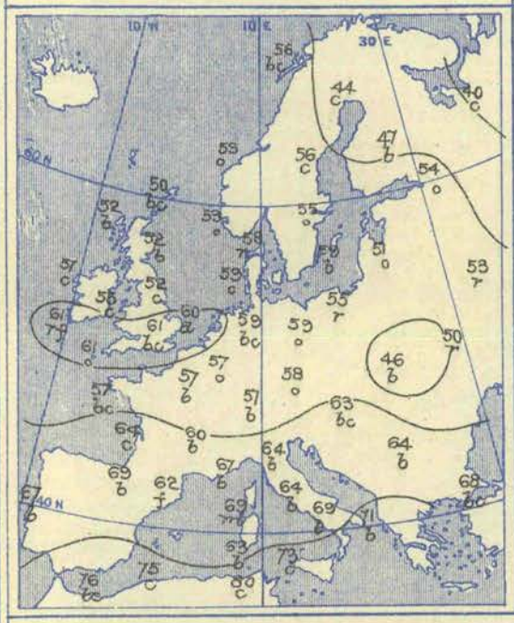


Wind Westerly and South-Westerly over the greater part of Ireland and England and blowing rather strongly in places but shifting to Northward. Very light on our extreme north-western coasts. Very variable, and fresh over the Baltic, light and anticyclonic over France, Easterly to Northerly over Spain. The Northerly wind at our northern stations subsequently spreading greatly, and the wind over the Continent generally falling very light.

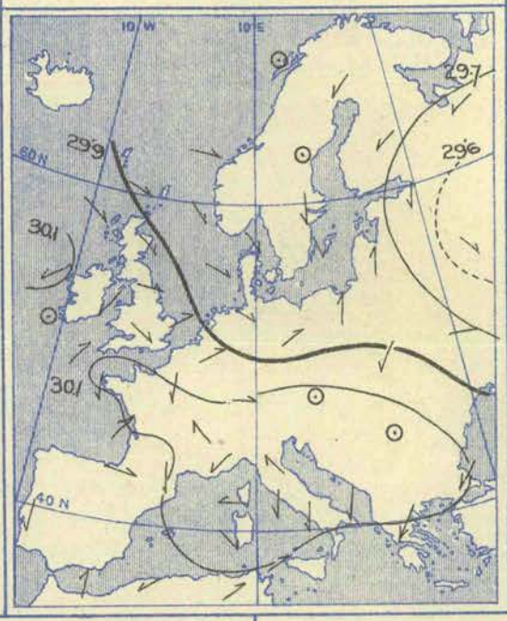
Barometer in morning, highest, 30·2 ins. and more to 30·1 ins. over France, the Mediterranean and the south and west of Germany; lowest, 29·52 ins. at Riga, and below 29·7 ins. in a new depression over the north of Scotland and below 29·8 ins. in a very shallow secondary over the north of Ireland. The main depression and its secondary over our northern districts moving south-eastwards later—the secondary developing in size.

Saturday, 31st August.

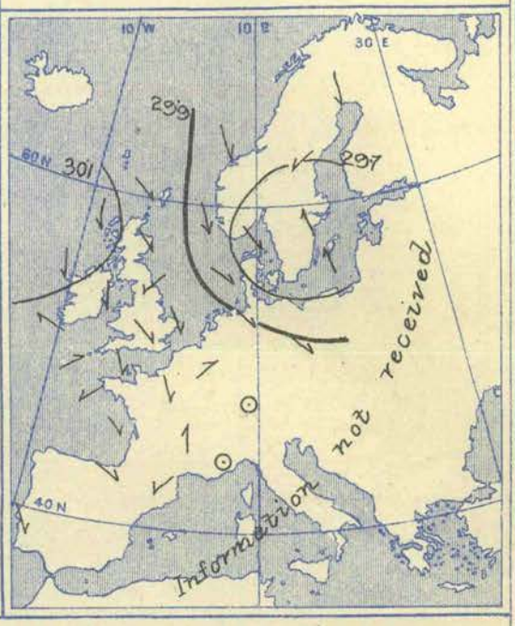
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning improved a little in Scotland and the extreme north of Europe, but not at all settled over England, the North Sea, the Baltic, and north Germany. Rain falling in several places—most over north Germany, the Baltic, the North Sea, and some parts of England—in London it was considerable between 3 p.m and 9 p.m. A thunderstorm at Lyons.

Temperature falling again over Great Britain and in Finland; risen over the southern half of the Continent. Morning readings ranging from 80° at La Calle, and above 70° on the southern shores of the Mediterranean generally, and a little above 60° in the extreme south of our Islands, to between 52° and 50° in the north-east of Great Britain to 44° at Haparanda, and to 40° at Archangel. Not touching 70° later at any of our own stations, but reaching 77° at Frankfürt, 81° at Lorient, 82° at Lyons.

Wind light North-Westerly to Northerly over Ireland and Scotland, Westerly over the south-east of England, Northerly and variable over northern Europe, Westerly and South-Westerly over north Germany, very light and variable elsewhere, or calm. The Northerly and North-Westerly wind spreading later all over England and to Germany.

Barometer, highest, 30·21 ins. at Cagliari, and exceeding 30·1 ins. over south-eastern and southern Europe and Brittany. Lowest, 29·54 ins. at Moscow, and below 30·0 ins. in a very shallow and ill-formed secondary over the north-east of England. Latter system moving south-eastward later and barometer rising all over the British Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week barometric depressions have moved from north-west to south-east over the various countries in northern Europe, and have brought with them unsettled weather, followed by a great reduction of temperature. In the British Islands the showers have been frequent and in many places heavy, but at the close of the week the barometer had begun to rise again in the north-west, and the appearance improved a little. Some other disturbances appeared over the northern parts of the Mediterranean between Tuesday and Thursday, but their movement was very obscure, as is frequently the case in those regions.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	24·3	− 1·7	25	− 1	BRIGHTON	46·5	+ 1·5	49	+ 1
STRATHPEFFER SPA	30·9	+ 3·8	31	+ 3	WORTHING	48·7	?	51	?
EDINBURGH	39·1	+ 9·6	40	+10	BOGNOR	47·2*	?	50*	?
MORPETH	48·6	?	50	?	WATERGATE (Emsworth)	40·8	?	43	?
NEWCASTLE-ON-TYNE	41·3	?	43	?	WESTBOURNE (Emsworth)	45·0*	+ 1·3	47*	+ 1
OSWALDKIRK (Yorkshire)	48·1	+18·7	50	+20	VENTNOR HOSPITAL	46·3	+ 1·8	49	+ 2
YORK					BOURNEMOUTH	46·7	?	49	?
LOWESTOFT	41·5	?	43	?	SOUTHPORT	51·7	?	53	?
HOLLESLEY BAY	46·8	?	49	?	RHYL		?		?
SHEFFIELD	51·4	?	54	?	COLWYN BAY	42·4	?	44	?
WORKSOP	42·9	+12·0	45	+13	ABERDOVEY	24·8*	?	26*	?
THURCASTON (Leicestershire)	31·7	− 2·3	33	− 2	TENBY	34·5	− 6·2	36	− 7
MARGATE	40·2	+ 0·9	42	+ 1	NEWQUAY	20·9	−23·6	22	−23
BROADSTAIRS	41·9	?	44	?	TORQUAY				
EASTBOURNE	41·1	− 2·6	43	− 3	CAHIR (Duneske)	22·3*	?	23*	?
					GUERNSEY	59·2*	+ 8·8	62*	+ 9

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 36.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 7TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 212.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	31	60·1	45·3	52·3	1 below	72	− 1	0	− 1	1805*	+246	561	− 3
	1. SCOTLAND, EAST	68	31	58·7	44·7	51·4	2 below	66	−16	0	0	1955	+ 91	657	+45
	2. ENGLAND, N.E.	69	34	60·7	48·3	54·2	1 below	85	− 9	0	0	2176	+156	516	+ 9
	3. ENGLAND, EAST	73	38	63·8	48·3	55·7	2 below	96	−15	0	0	2375	+ 30	560	+ 8
	4. MIDLAND COUNTIES	71	37	63·2	45·1	53·7	3 below	82	−19	0	0	2438	+ 78	591	+32
	5. ENGLAND, SOUTH	73	40	64·4	50·5	57·1	2 below	106	−11	0	0	2498	− 46	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	64	33	60·4	47·0	53·4	1 below	80	− 8	0	0	2068	+ 88	470	+36
	7. ENGLAND, N.W.	70	32	62·4	47·0	54·3	2 below	86	−13	0	0	2253	+ 94	453	+44
	8. ENGLAND, S.W.	70	41	63·0	50·3	56·4	1 below	101	− 6	0	0	2469	+106	369	+51
	9. IRELAND, NORTH	65	32	60·5	46·7	53·3	2 below	79	−12	0	0	2045	− 50	374	+11
	10. IRELAND, SOUTH	67	37	62·3	48·9	55·3	1 below	93	− 7	0	0	2363	− 15	325	+63
	—CHANNEL ISLANDS	74	51	65.8	55·6	60·4	0 (average)	129	+ 3	0	0	2777	+ 77	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 212.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	1	10 less	153	+ 1	25·8*	− 5·2	38	+14	40	+14	1049	+139	31	+ 4
	1. SCOTLAND, EAST	3	3	5 less	128	− 3	18·3	− 2·2	33	+ 4	34	+ 3	1196	+152	35	+ 4
	2. ENGLAND, N.E.	2	less than ½	5 less	113	− 8	14·3	− 2·3	36	+ 4	39	+ 4	1266	+219	37	+ 6
	3. ENGLAND, EAST	0	—	5 less	106	−16	12·3	− 4·0	53	+16	57	+15	1472	+176	42	+ 5
	4. MIDLAND COUNTIES	1	1	5 less	106	−11	17·4	− 0·9	39	+ 8	42	+ 8	1244*	+161	39	+ 5
	5. ENGLAND, SOUTH	1	1	6 less	97	−17	15·6	− 2·1	55	+14	60	+15	1514	+197	45	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	6	5 less	131	−10	28·3	− 4·5	36	+ 6	39	+ 7	1287	+192	38	+ 5
	7. ENGLAND, N.W.	1	2	7 less	120	− 7	17·2	− 4·7	46	+16	49	+17	1398*	+262	41	+ 8
	8. ENGLAND, S.W.	4	4	5 less	110	−22	22·1	− 3·4	32	− 8	35	− 9	1424	+ 95	43	+ 3
	9. IRELAND, NORTH	3	8	0 (average)	147	− 6	22·4	− 1·1	38	+11	41	+11	1104	+103	33	+ 3
	10. IRELAND, SOUTH	3	12	4 more	120	−18	22·1	− 4·4	34	− 1	37	0	1206	+ 71	36	+ 2
	— CHANNEL ISLANDS	3	6	1 less	126	− 5	19·0	− 0·7	36	− 6	40	− 6	1553	+ 40	48	+ 1

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during the first part of this period was fine and bright over nearly the whole of the Kingdom, but towards the end of the time very heavy rains were experienced in the west and south-west of Ireland, and by Saturday unsettled, rainy conditions were extending eastwards to all parts of the Kingdom.

Temperature was rather below the mean in all districts excepting the Channel Islands The highest of the maxima were recorded, as a rule, on the 7th, and ranged from 74° in the Channel Islands and 73° in England S. and E. to 65° in Ireland N. and to 64° in Scotland W. The lowest of the minima occurred on the 2nd in most parts of Great Britain, and on the 6th in Ireland, and varied from 31° in Scotland N. and E. 32° in England N.W. and Ireland N., and 34° in England N.E. to 40° in England S., 41° in England S.W. and to 51° in the Channel Islands.

Rainfall just equalled the mean in Ireland N., but was considerably more in Ireland S. ; in all other districts there was a deficit. At many English stations the week was quite rainless.

Bright Sunshine again exceeded the mean generally, but only equalled that value in Ireland S. and was below it both in England S.W. and the Channel Islands. The percentage of the possible duration ranged from 60 in England S. and 57 in England E., and from 46 in England N.W. to between 41 and 34 in the extreme south-western, western and northern parts of the Kingdom.

Barometer and Wind.—At the commencement of the week an anticyclone had appeared over our northern districts from the Atlantic, and during the remainder of the period this system travelled slowly east-north-eastwards to Scandinavia and at the same time increased gradually in intensity. During the earlier days depressions of no great depth were shown over the Bay of Biscay and France, and the North-Easterly and Easterly winds over our Islands were light or moderate in force. After Thursday, however, depressions began moving northwards outside our south-western and western coasts and to spread eastwards over the Kingdom. This change caused the wind to veer to the South-Eastward or Southward and to increase steadily in force until, at the end of the week, a Southerly gale was felt in Ireland and a South-Easterly gale in the north of Scotland.

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II.—DATA from which the SUMMARY on page 211 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	43	55·3	46·3	50·6	- 0·7	60	0	2	0·02	- 0·77	*	*	*	*
	Stornoway	67	39	62·1	44·9	53·1	+ 1·0	78	0	1	0·07	- 0·86	47·3	+20·5	50	+22
	Wick	64	38	59·4	46·4	52·6	- 0·2	74	0	2	0·06	- 0·54	*	*	*	*
	Lairg Ş	70	31	61·3	42·2	51·3	- 1·2	65	0	3	0·13	- 0·57	*	*	*	*
	Glencarron Ş	61	34	58·3	45·1	51·4	- 1·0	66	0	0	—	- 1·70	*	*	*	*
	Fort Augustus Ş	69	33	62·3	45·0	53·2	- 1·0	78	0	1	0·01	- 0·86	33·6	+14·5	35	+15
	Fort William Ş	63	38	61·7	47·2	54·1	- 0·4	85	0	3	0·16	- 1·42	47·8	+25·2	50	+26
1. SCOTLAND, E.	Nairn	63	35	60·1	43·7	51·5	- 2·5	67	0	1	0·04	- 0·56	*	*	*	*
	Aberdeen	60	39	57·9	47·1	52·2	- 1·4	71	0	2	0·02	- 0·65	34·4	+ 3·4	36	+ 3
	Braemar Ş	58	31	54·6	40·9	47·4	- 3·3	42	3	3	0·34	- 0·45	*	*	*	*
	Ochtertyre Ş	65	35	60·6	45·7	52·8	- 1·8	76	0	3	0·61	- 0·22	*	*	*	*
	Leith	68	44	61·0	47·6	54·0	- 1·8	84	0	4	0·26	- 0·28	*	*	*	*
	Marchmont Ş	63	41	57·7	43·3	50·2	- 3·4	57	0	3	0·22	- 0·53	29·3	- 0·2	31	- 1
2. ENGLAND, N.E.	Alnwick Castle	61	41	59·1	47·6	53·1	- 1·2	78	0	1	0·03	- 0·61	*	*	*	*
	Durham	62	34	58·8	44·1	51·1	- 4·1	64	0	2	0·06	- 0·47	35·5	+ 6·1	38	+ 6
	Shields	61	42	58·7	48·4	53·3	0·0	79	0	1	0·02	- 0·53	*	*	*	*
	Scarborough Ṁ	65	40	60·9	48·3	54·3	- 1·8	86	0	4	0·09	- 0·50	37·9	?	41	?
	Spurn Head	63	48	62·1	53·0	57·3	- 0·1	107	0	0	—	- 0·41	*	*	*	*
	Fulbeck (Lincolnshire)	69	42	64·3	48·2	55·9	- 0·9	97	0	1	0·05	- 0·47	*	*	*	*
3. ENGLAND, E.	Hillington Ṁ	69	39	64·3	44·7	54·0	- 3·4	84	0	1	0·02	- 0·58	45·3	+10·8	49	+12
	Yarmouth	62	50	51·1	53·9	57·3	- 0·6	107	0	1	0·01	- 0·57	*	*	*	*
	Geldeston	65	44	62·4	48·6	55·2	- 2·4	92	0	0	—	- 0·52	45·7	+ 6·7	49	+ 7
	Cambridge	73	40	67·7	44·4	55·5	- 2·8	95	0	0	—	- 0·50	58·2	+21·1	63	+23
	Felixstowe	65	46	63·3	53·2	58·0	+ 0·5	112	0	0	—	?	62·8†	?†	67†	?†
	Rothamsted	67	38	64·1	45·0	54·1	- 2·8	85	0	1	0·01	- 0·57	53·4	+16·8	57	+ 17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	37	64·6	41·4	52·4	- 4·2	75	2	1	0·10	- 0·40	*	*	*	*
	Loughborough	71	38	64·4	42·3	52·8	- 4·8	76	0	1	0·08	- 0·48	*	*	*	*
	Colly Weston (Stamford)	71	42	66·3	45·0	55·1	- 2·2	92	0	1	0·03	?	*	*	*	*
	Cheadle Ṁ	67	43	60·8	46·8	53·5	- 1·5	81	0	1	0·26	- 0·48	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	45	61·7	47·4	54·2	- 2·4	85	0	0	—	- 0·60	38·1	?	41	?
	Churchstoke Ṁ	67	41	60·9	45·2	52·7	- 2·5	75	0	1	0·11	- 0·51	37·3	+ 3·1	40	+ 3
	Hereford (Belmont) Ṁ	69	39	62·8	44·4	53·2	- 3·9	78	0	1	0·22	- 0·36	*	*	*	*
	Cirencester	68	43	62·9	47·4	54·8	- 1·3	90	0	2	0·13	- 0·56	42·3	+ 7·3	45	+ 7
	Oxford	68	42	64·6	46·3	55·0	- 2·8	91	0	1	0·05	- 0·50	44·1	+ 7·6	47	+ 7
5. ENGLAND, S.	London	73	42	67·1	48·4	57·3	- 2·0	107	0	0	—	- 0·51	46·5†	+13·6†	50†	+14†
	Swarraton (Alresford) Ṁ	68	40	64·0	46·8	55·0	- 1·4	91	0	2	0.03	- 0·63	*	*	*	*
	Dungeness	67	53	63·7	55·7	59·5	0·0	123	0	0	—	- 0·52	57·1	?	62	?
	Hastings (St. Leonards)	65	48	63·7	51·4	57·3	- 2·2	107	0	0	—	- 0·60	60·9	+18·8	66	+20
	Southampton	68	45	66·4	49·5	57·5	- 2·0	109	0	2	0·07	- 0·57	49·2	+ 8·8	53	+ 9
	Portland Bill	66	52	63·4	53·6	58·3	- 0·9	114	0	3	0·15	?	*	*	*	*
	Shaftesbury Ṁ	66	45	62·7	47·8	54·9	- 2·1	90	0	2	0·13	- 0·59	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	40	61·2	47·2	53·9	- 0·7	83	0	2	0·41	- 1·09	*	*	*	*
	Glasgow	63	43	59·3	47·2	53·0	- 1·2	77	0	2	0·20	- 0·68	25·4	+ 0·9	27	+ 1
	Glenlee Ş	64	33	61·2	42·4	51·4	- 2·7	66	0	2	1·14	+ 0·04	*	*	*	*
	Douglas (Isle of Man)	62	45	59·7	51·1	55·2	+ 0·2	92	0	3	0·68	- 0·16	47·1	+11·9	51	+13
7. ENGLAND, N.W.	Newton Reigny	66	32	61·3	41·6	51·0	- 3·3	65	1	1	0·21	?	31·0	?	33	?
	Stonyhurst	65	41	61·2	46·8	53·7	- 1·7	82	0	1	0·14	- 1·00	43·6	+12·9	47	+14
	Blackpool Ṁ	69	40	63·4	45·0	53·8	- 2·7	83	0	1	0·35	- 0·45	46·9	+16·1	50	+17
	Manchester (Prestwich)	68	42	62·8	46·9	54·5	- 1·3	88	0	1	0·20	- 0·67	40·3	?	43	?
	Liverpool Obsy. (Bidston)	67	46	61·9	49·6	55·5	- 1·8	95	0	2	0·11	- 0·59	36·0	?	39	?
	Chester (Hawarden Bridge)	68	43	64·6	46·3	55·0	- 2·6	91	0	1	0·09	?	*	*	*	*
	Llandudno Ṁ	70	46	62·6	49·5	55·7	- 2·3	96	0	1	0·01	- 0·67	48·9	+17·2	53	+19
	Holyhead	65	48	61·4	50·1	55·5	- 1·8	95	0	2	0·14	- 0·56	*	*	*	*
8. ENGLAND, S.W.	Llandovery	69	41	64·0	47·4	55·3	- 1·1	93	0	4	0·20	- 0·84	*	*	*	*
	Pembroke	64	50	61·9	52·0	56·7	- 0·9	103	0	4	0·62	- 0·10	33·4	- 4·3	36	- 5
	Clifton												*	*	*	*
	Bath	70	44	65·1	47·9	56·1	- 2·3	99	0	2	0·11	?	37·0	?	40	?
	Arlington (N. Devon)	64	47	61·3	48·9	54·8	- 1·6	90	0	3	0·26	- 0·86	*	*	*	*
	Cullompton Ṁ	67	43	64·4	47·7	55·7	- 2·5	96	0	2	0·21	- 0·51	34·5	- 1·7	38	- 2
	Falmouth	63	50	61·2	54·5	57·7	- 0·6	110	0	6	0·90	0·00	24·9	-15·1	27	18
	Plymouth	65	49	63·4	54·0	58·5	- 0·2	116	0	4	0·45	- 0·30	31·2	- 7·8	34	- 9
9. IRELAND, N.	Malin Head	64	46	60·3	49·6	54·7	- 0·9	89	0	3	0·24	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	64	33	62·1	42·6	51·9	- 1·9	69	0	3	0·56	- 0·28	*	*	*	*
	Blacksod Point	65	45	59·7	48·4	53·8	- 2·5	83	0	3	2·48	?	*	*	*	*
	Markree Castle	65	32	61·3	43·6	52·0	- 2·5	70	0	3	1·04	+ 0·14	36·3	+ 9·7	39	+10
	Armagh	63	36	60·4	44·5	52·1	- 2·6	71	0	3	0·41	- 0·27	38·7	+11·0	42	+12
	Donaghadee	61	50	58·9	51·6	55·1	- 0·3	92	0	2	0·26	- 0·42	*	*	*	*
10. IRELAND, S	Dublin	65	43	62·5	49·9	55·9	- 1·1	97	0	3	0·32	- 0·24	47·6	+12·9	51	+13
	Parsonstown	64	37	61·9	45·1	53·1	- 2·5	78	0	3	0·64	- 0·09	27·2	- 3·5	29	- 4
	Kilkenny	64	40	61·9	46·1	53·6	- 2·3	81	0	3	0·62	- 0·06	*	*	*	*
	Roche's Point	62	44	61·0	51·6	56·1	- 1·2	99	0	4	1·78	+ 0·94	*	*	*	*
	Valencia	65	43	62·1	52·3	57·0	- 0·4	105	0	4	2·79	+ 1·77	22·4	- 9·9	24	-11
	Killarney	67	41	63·1	50·2	56·3	- 0·3	100	0	5	1·04	+ 0·12	*	*	*	*
	Foynes	67	42	63·9	46·8	54·9	- 1·5	90	0	2	1·30	+ 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	55	63·4	56·0	59·5	+ 0·2	123	0	4	1·03	+ 0·36	26·3	?	29	?
	Jersey	74	51	68·1	55·1	61·3	0·0	135	0	1	0·12	- 0·56	44·2	- 2·8	49	- 4

Stations marked Ṁ are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

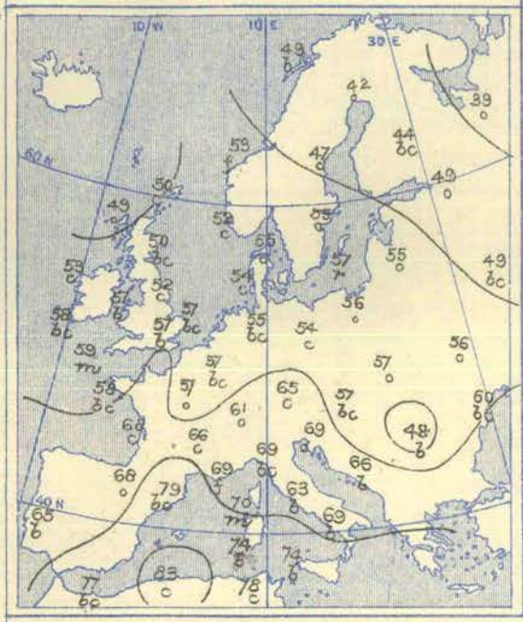
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

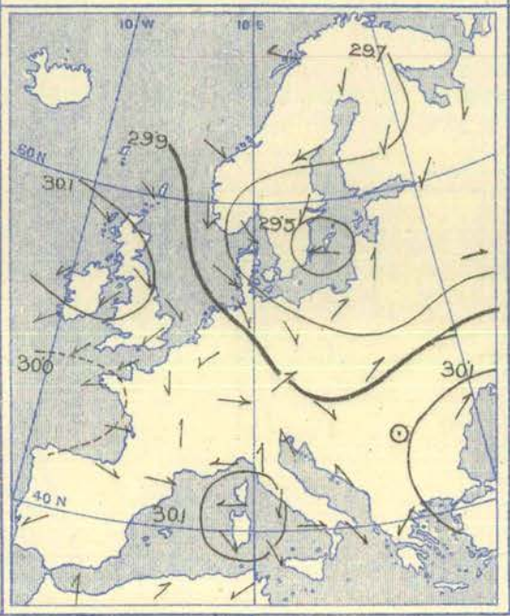
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 1st September.

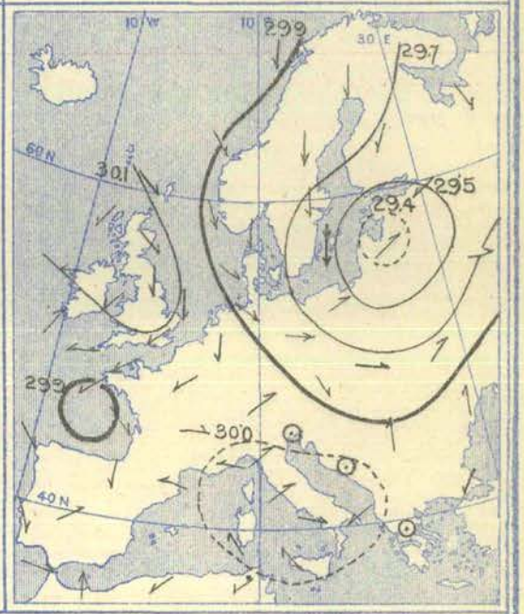
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and misty on our south-west coasts, as well as to the eastward of the North Sea, and rainy in central Germany, but fair or fine in most other places. Rain later in small amounts at a few of our stations, and in larger quantity at some of the German stations, as well as in the south of France, where thunderstorms prevailed.

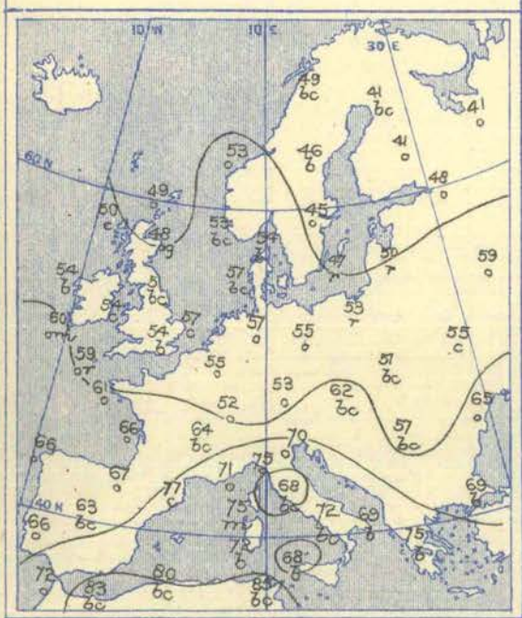
Temperature fallen somewhat over our Islands, and also in Scandinavia, but risen a little at many of the Continental stations. Morning readings highest, 83° at Aumale, 79° at Barcelona, 78° at Palma and La Calle, 77° at Oran, and 76° at Tunis and Patras. Lowest, (1) 39° at Archangel, 42° at Haparanda, and 44° at Kuopio; (2) 45° at Newton Reigny, and 46° at Loughborough and Parsonstown. Rising during day to 70° at Jersey, but failing to reach that value at any of our own stations. Still very warm on the Continent, thermometer rising to above 80° in many parts of France and Italy, and reaching 86° at Palermo. Highest maxima recorded were over Algeria and central Spain, temperature rising to 94° at Madrid, 95° at Nemours, and 97° at Algiers.

Wind light from North-West in Scotland, Northerly or North-Easterly over Ireland and England, and strong from the same quarter in Scandinavia, North-Westerly over Germany and Austria, and light and variable over southern Europe and the Mediterranean. No material change later, but increasing to a fresh gale from the Northwards at Wisby.

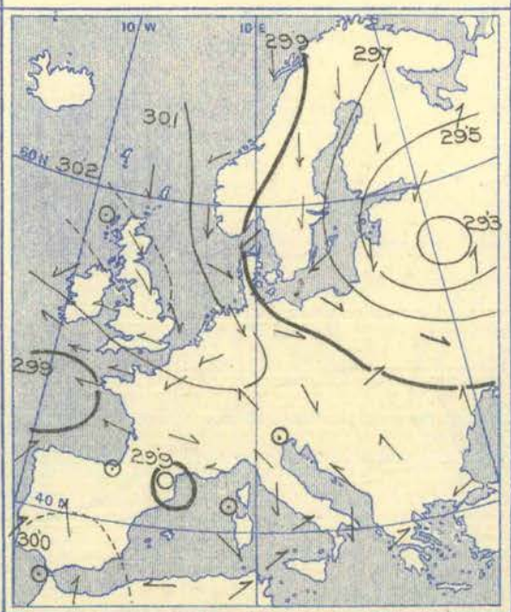
Barometer highest, 30·1 ins. and less in three anticyclones lying over our Islands, the Mediterranean, and the Black Sea respectively. Lowest, 29·5 ins. and less in a well-marked depression over the Baltic and the south of Sweden, and 30·0 ins. and less in a shallow system over the west of France and the Bay of Biscay; depression over the Baltic moving eastwards later, and becoming somewhat deeper.

Monday, 2nd September.

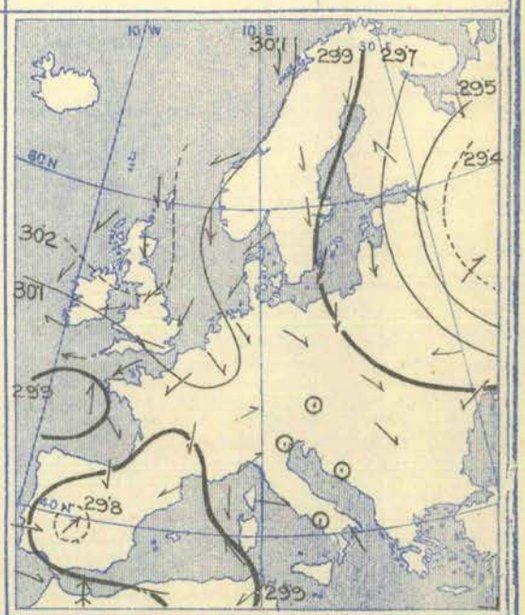
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the Continent generally, and rainy at several of the German stations, fine in some parts of France and nearly the whole of Great Britain and the north of Ireland, gloomy and misty at Valencia, rainy at Scilly. A little rain or wet mist later at several of our eastern stations, and a considerable fall at Scilly.

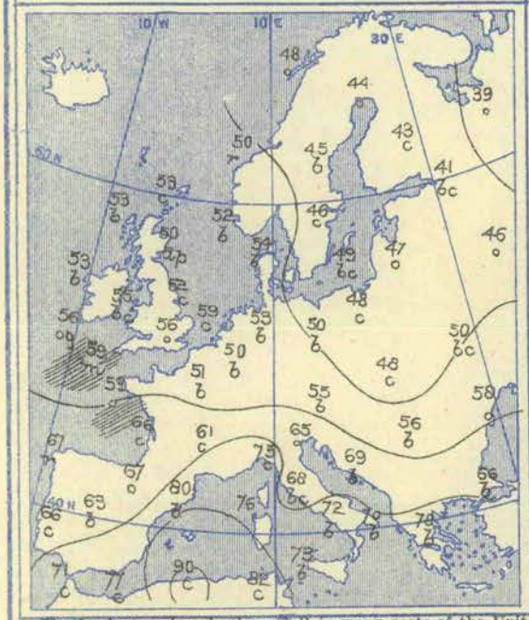
Temperature fallen further over the Continent and the southern parts of England, as well as in the north-east of Scotland. Morning readings highest, 85° to 80° over Algeria, 70° and more over the Mediterranean generally; 60° at Valencia and Dungeness. Lowest, 41° at Archangel, Uleaborg and Kuopio, 45° at Stockholm, 47° to 43° in the north-east of Scotland, 48° at Loughborough. Rising later to very little above 60° over the British Islands, but maxima ranging from 70° to 75° in the west of France, to 80° at Lyons.

Wind light and anticyclonic over the northern half of the British Islands—Westerly and North-Westerly in the north-east and east, Easterly in the north-west and west—moderate to strong from East in the south, and less strong over France. Northerly over Scandinavia, North-Westerly and Westerly over Germany, Southerly over central Russia; variable over the Mediterranean. Not much change later.

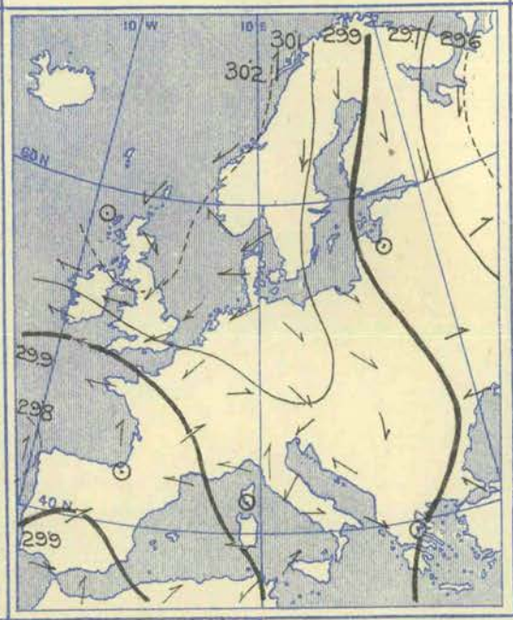
Barometer highest, 30·2 ins. and more to 30·1 ins. over our Islands and Belgium, and exceeding 30·0 ins. over the south of the Spanish Peninsula and Morocco. Lowest, about 29·3 ins. in central Russia, and below 29·9 ins. off our south-west coasts and over the Bay of Biscay. The Russian depression moving north-eastwards later, and that over the Bay of Biscay advancing a little nearer to Brittany.

Tuesday, 3rd September.

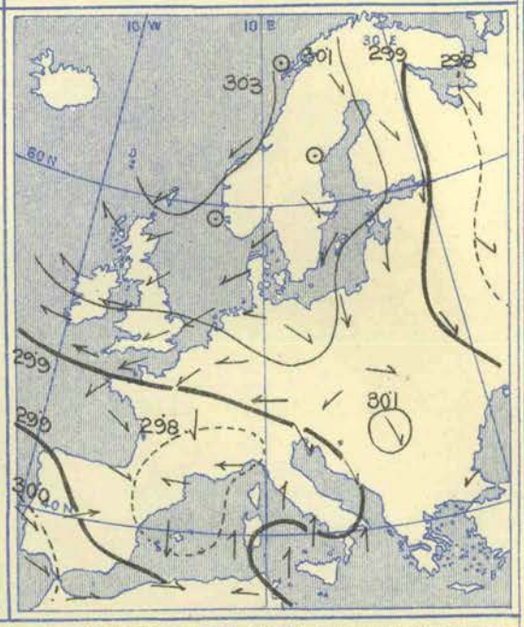
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in many parts of the United Kingdom, and also in the west of Norway, with showers on our north-east coasts and steady rain at Christiansund. Fine on the western and southern coasts of Great Britain, and at most of the Continental stations. Rain later in the north and east of Scotland, and also in the west of Norway and the south of Sweden, and in large quantities in the south of France, where thunderstorms occurred.

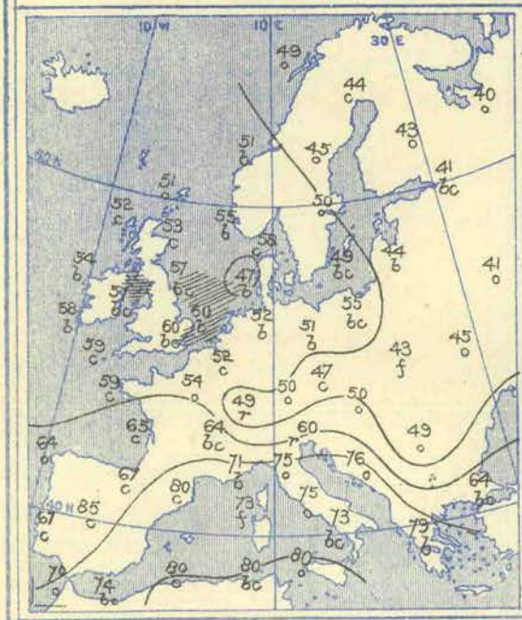
Temperature slightly higher over England, fallen a little in Ireland and on the Continent generally. Morning readings highest, 90° at Algiers, 82° at La Calle and Sfax, 80° at Barcelona, and 78° at Athens. Lowest, 39° at Archangel and Varsovie, 41° at St. Petersburg, 42° at Haparanda, and 43° at Hangö and Kuopio; below 50° over northern Europe generally. Rising during day to 67° in London, but not rising above 65° at any of our other stations. Exceeding 70° over France, and reaching 79° at Lyons and 82° at Rochefort. Remaining very high over southern Europe, thermometer rising to 86° at Florence, 90° at Palermo and Oran, 93° at Algiers, 95° at Tunis, and 100° at Madrid.

Wind North-Easterly or Easterly over western Europe generally, light or moderate in force in most places, but fresh or strong in the western part of the English Channel. Light from North on the north-east coasts of Great Britain, and strong from the Northward in Sweden, variable over southern Europe. No important change later, but moderating in force at the Swedish stations.

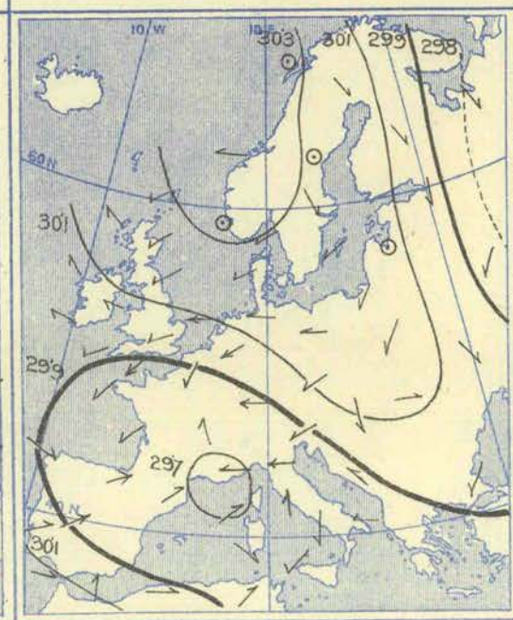
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the north of our Islands and the west of Norway, and 30·0 ins. and more off the south of Spain. Lowest, 29·6 ins. and less over northern Russia, and 29·3 ins. and less over the Bay of Biscay, latter depression moving later in an easterly direction to the south of France and the Gulf of Lions; no material change elsewhere.

Wednesday, 4th September.

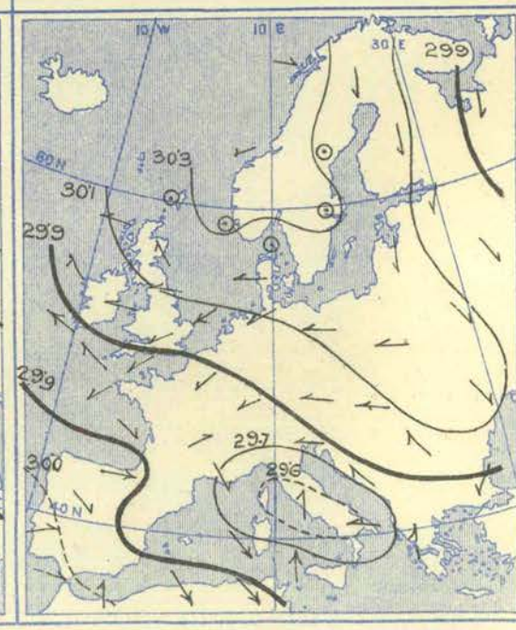
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair generally over all the northern parts of Europe, though cloudy in places, less fair in the south with rain at several of the southern French stations and in the north of Italy. A good deal of rain later in the last-named regions and at Trieste, smaller quantities in south Germany, but dry in the British Islands and northern Europe.

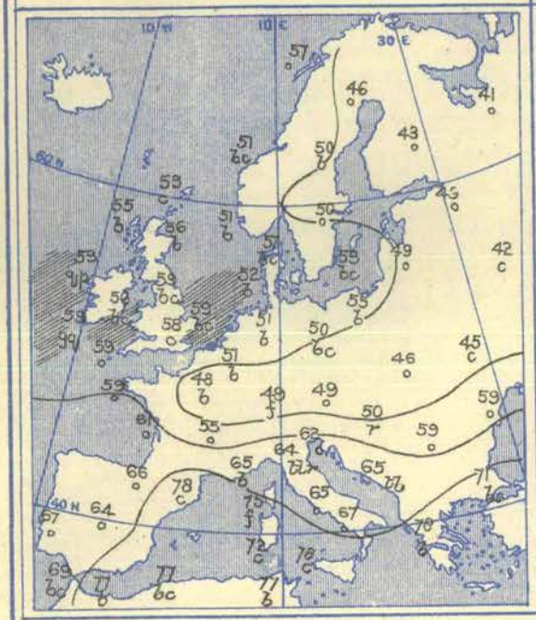
Temperature fallen a little over central Europe, risen a few degrees over the United Kingdom. Morning readings highest, 85° at Madrid, 80° over the southern shores of the Mediterranean, and above 70° in the Riviera and north of Italy. Lowest, 40° at Archangel, 43° at Kuopio, 49° at Bodö; 51° to 52° in the north of Scotland, but 47° at Fanö, 49° at Belfort. Not touching 70° at any of our own stations later, but reaching 77° in the west of France and at Lyons, 86° at Barcelona; 98° at Palermo, 99° at Tunis and Biskra.

Wind light and anticyclonic from the Northward and over Finland, from East in Scotland; stronger from East over England and from South-East in the west of Ireland, North-Easterly over the northern parts of France, Westerly to South-Westerly over Spain, very variable over the southern half of the Mediterranean. Blowing a moderate gale from East later over the Straits of Dover, and from West at Biarritz, and a fresh breeze from North-West over Algeria.

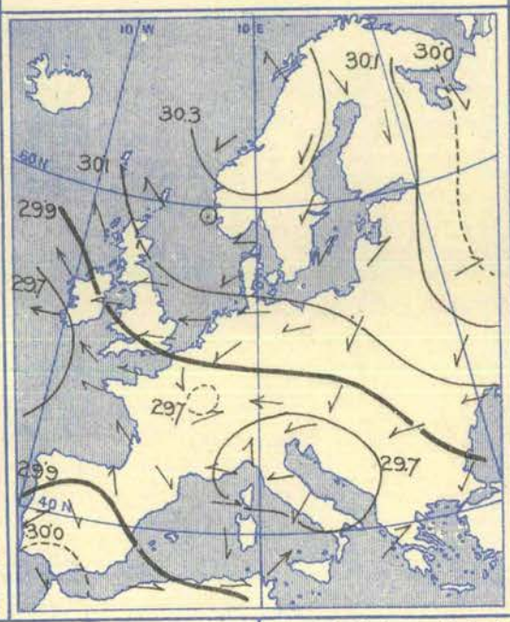
Barometer highest, 30·3 ins. and more to 30·2 ins. over Scandinavia, the Baltic, Denmark, the northern half of the North Sea and Scotland. Lowest, 29·65 ins. in the extreme south of France and below 29·3 ins. in a depression over all the southern half of that country, the east of Spain, north of the Mediterranean, and north of Italy. The latter depression moving south-eastwards later to Italy—near Rome. The barometer beginning to give way on our own western coasts.

Thursday, 5th September.

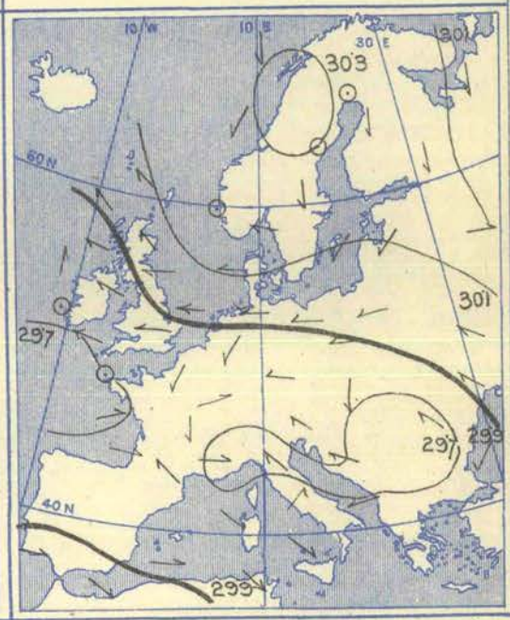
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of Great Britain, the North Sea, northern Europe and Germany, dull, squally and showery on our extreme western coasts and less fair than of late at our own south-western stations generally; thunderstorms reported over Italy and in its neighbourhood. The less settled weather in the west of our Islands increasing later and spreading northward, eastward and southward, the Scandinavian weather improving, and a good deal of rain falling in parts of Hungary and the south of Russia.

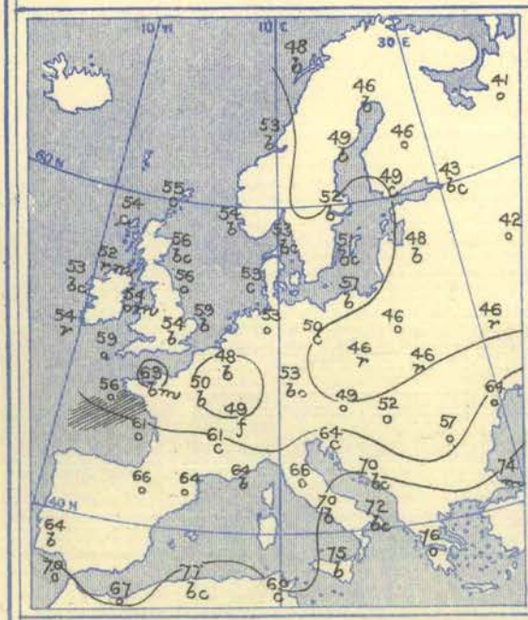
Temperature falling in France, changing little over our Islands. Morning readings highest, 78° at Athens, Palermo and Barcelona, and exceeding 70° at many of the Mediterranean stations, 66° at Biarritz, 62° at Jersey. Lowest, 41° at Archangel, 42° at St. Petersburg, 46° at Haparanda, 47° at Karlstadt, 47° at Breslau, and below 60° over the whole of Great Britain and Ireland. Rising later to 66° in London, 77° at Brest, 91° at Palermo.

Wind Northerly over Finland, Easterly over Germany and England; North-Easterly over the north of France, variable and faint further southward, South-Easterly over Ireland, Southerly in the north of Scotland. Not much change later beyond a decrease in the strength of the Northerly current in Finland and the north of Russia, and a considerable falling off of the Easterly wind in Ireland.

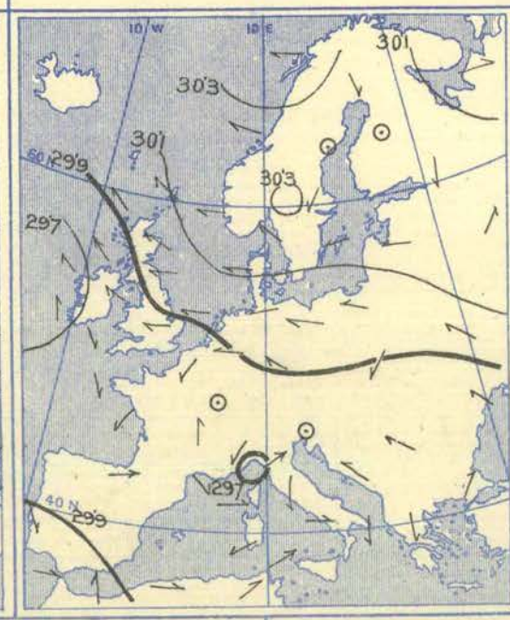
Barometer highest, (1) 30·3 ins. and more to 30·2 ins. in an anticyclone over Scandinavia, Finland and a great part of the North Sea; (2) 30·0 ins. and more over the south of Spain; Lowest, (1) 29·7 ins. and less in a depression off the south-west of the British Islands and over the Bay of Biscay; (2) below 29·7 ins. in another disturbance over Italy, the Adriatic and Dalmatia. The depression off our south-west coasts moving South-Eastwards later, that over the Mediterranean and Adriatic undergoing great modification in form.

Friday, 6th September.

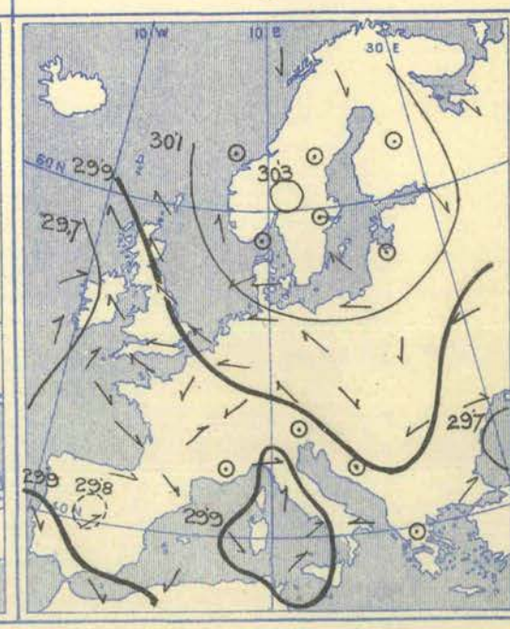
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and rainy on our own western coasts, and also over Austria and southern Russia, but fair or fine elsewhere. Rain later in small quantities over our northern and western districts generally, and in large quantities at Belfort, as well as in some parts of southern Russia and Austria, as much as 2·32 ins. at Kiev.

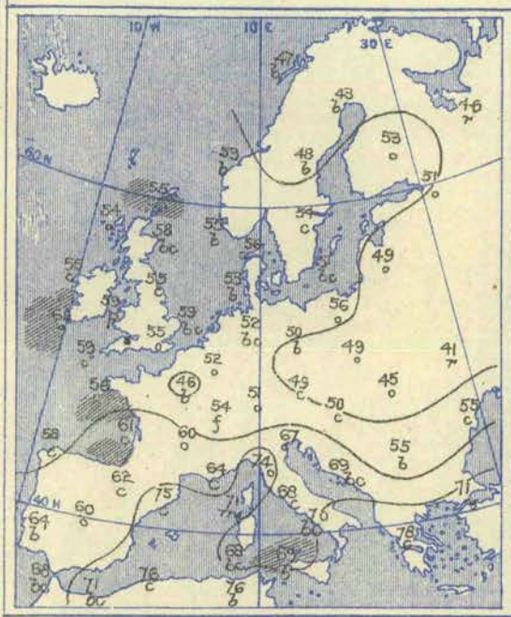
Temperature changes slight and irregular generally, but fallen a little at most of our own stations. Morning readings highest, 77° at Algiers and La Calle, 76° at Sanguinaires and Patras, and 75° at Palermo. Lowest, 41° at Archangel, 42° at Moscow, 43° at St. Petersburg, and 46° at several Austrian stations. Rising during day to 68° in London and to 67° at Jersey, but failing to reach 60° at many of our northern and western stations, exceeding 70° over France generally, and reaching 80° at Perpignan. Much higher maxima recorded over southern Europe and the Mediterranean, temperature rising to 88° at Brindisi and 90° at Palermo and Sfax.

Wind Easterly over England, South-Easterly in Ireland and Scotland, blowing freshly in many places, chiefly Easterly and North-Easterly at the Continental stations, but light from the Westward or South-Westward over Algeria. No important change later, but becoming more variable over the Continent generally.

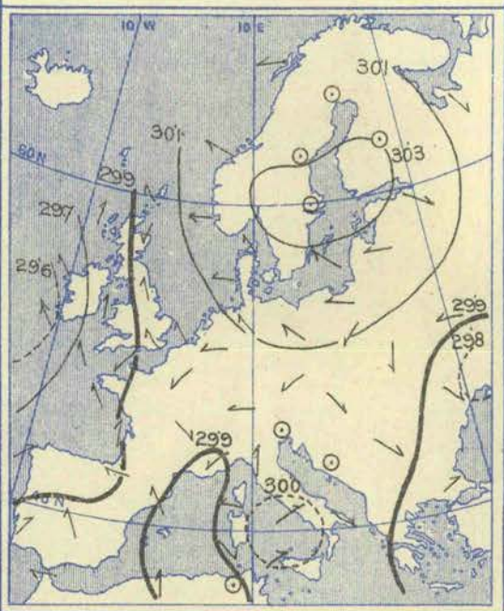
Barometer highest, 30·2 ins. to 30·3 ins. over Scandinavia, and 29·9 ins. and upwards over the south of Spain. Lowest, 29·7 ins. and less over the west of Ireland, and also in a shallow disturbance over the Gulf of Genoa, and 30·1 ins. and less over northern Russia. Shallow depression forming over south-eastern Europe later, and another anticyclone with readings of 29·9 ins. and more appearing over the Mediterranean.

Saturday, 7th September.

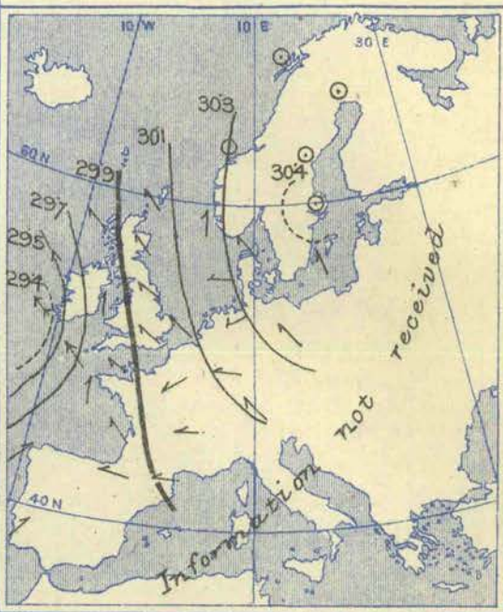
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning remaining very fine over northern and many parts of Central Europe and France, fine over the east of England and in Italy, but becoming less and less fair in Ireland and on our western coasts, with rain in several places. Heavy rains later in the west and south of Ireland, and considerable quantities in other western districts, as well as, spordically, over England and some parts of the Continent; lightning at Belfort.

Temperature risen in the south-west and south of our Islands and over some parts of France, fallen in the south of Russia. Morning readings highest, 82° at Sfax, 76° at Algiers, and above 70° at several of the Mediterranean stations; 60° at Lyons, Portland Bill and Valencia, 58° at Aberdeen. Lowest, (1) 45° to 46° in the extreme north of Europe, 49° at Riga; (2) 41° at Kieff, 47° at Kharkov. Rising later to 61° at Haparanda, 71° at Loughborough, 80° at Perpignan, and 82° on the south-west coast of France.

Wind very light and anticyclonic over almost the whole of the Continent; South-Easterly to Southerly in the British Islands, and increasing in force at the western stations. Rising later to a gale in Ireland, and the gale spreading subsequently towards Wales and Scotland, but heavy at Blacksod only.

Barometer in morning highest, 30·3 ins. to 30·1 ins. in an anticyclone over all the northern countries of Europe, and exceeding 30·0 ins. in another system over Sicily, Sardinia, and the south of Italy. Lowest, 29·56 ins. at Valencia (Ireland). Deep depression coming towards the south-west of Ireland later and passing northwards slowly. Barometer falling fast in Ireland, scarcely affected over the east of England.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week the distribution of pressure over Europe had become somewhat irregular. There was an anticyclone (30·1 ins. and more) over the western and northern parts of our Islands and a similar system over Corsica, Sardinia, and a part of Italy, the two being embraced in a band of somewhat high readings extending across England and France to the Mediterranean. To the eastward pressure decreased to 29·5 ins. and less over Sweden, while to the westward it was below 30·0 ins. over Brittany and the Bay of Biscay. Rather strong and cyclonic North-Easterly to North-Westerly and Westerly breezes were blowing over the Baltic and Scandinavia, accompanied by dull weather and, in some cases, rain, but Easterly winds were felt in the north-west of France and south of our Islands, and anticyclonic North-Westerly to North-Easterly airs in Scotland and Ireland. The weather was fine in our Islands.

During the next day or two the whole of these systems moved eastwards, a new anticyclone began to appear over the south of Spain, but the weather remained fine over the United Kingdom. On Wednesday a well-marked depression appeared over the Mediterranean and subsequently moved eastwards and on Thursday when the northern anticyclone had reached the north and east of Scandinavia depressions began to reach our south-western and western coasts, and move northwards, causing southerly gales and much rain in the west and north of our Islands, and an unsettled condition generally. At the close of the week these disturbances were beginning to move away, but the rain was spreading eastward over Great Britain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	41·5	+15·8	44	+17	BRIGHTON	55·6	+13·6	60	+14
STRATHPEFFER SPA	21·1	− 6·1	22	− 7	WORTHING	60·8	?	66	?
EDINBURGH	33·8	+ 7·5	36	+ 7	BOGNOR	60·4*	?	66*	?
MORPETH	42·5	?	45	?	WATERGATE (Emsworth)	51·9	?	56	?
NEWCASTLE-ON-TYNE	34·3	?	36	?	WESTBOURNE (Emsworth)	58·6*	+17·3	64*	+19
OSWALDKIRK (Yorkshire)	30·4	+ 2·0	33	+ 2	VENTNOR HOSPITAL	44·8	+ 2·0	49	+ 3
YORK		?		?	BOURNEMOUTH	44·3	?	48	?
LOWESTOFT	50·9	?	55	?	SOUTHPORT	45·1	?	48	?
HOLLESLEY BAY	57·0	?	61	?	RHYL	59·3*	?	64*	?
SHEFFIELD	28·8	?	31	?	COLWYN BAY		?		?
WORKSOP	36·0	+ 6·5	39	+ 7	ABERDOVEY	58·0*	?	62*	?
THURCASTON (Leicestershire)	46·9	+15·1	50	+16	TENBY	30·7	− 7·7	33	− 9
MARGATE	60·0	+23·0	65	+25	NEWQUAY	24·5	−16·0	27	−16
BROADSTAIRS	61·4	?	67		TORQUAY	37·6	− 3·3	41	− 3
EASTBOURNE	58·9	+17·1	64	+19	CAHIR (Duneske)	39·2*	?	42*	?
					GUERNSEY	38·3*	− 7·7	42*	− 9

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 37.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 14TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 218.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	37	62·2	49·8	55·7	4 above	96	+28	0	− 1	1901	+274	561	− 4
	1. SCOTLAND, EAST	71	40	62·4	49·8	55·8	3 above	97	+20	0	− 1	2052	+111	657	+44
	2. ENGLAND, N.E.	70	44	63·9	51·6	57·5	3 above	109	+20	0	0	2285	+176	516	+ 9
	3. ENGLAND, EAST	74	45	66·9	52·9	59·5	3 above	123	+22	0	0	2498	+ 52	560	+ 8
	4. MIDLAND COUNTIES	74	40	65·6	50·3	57·6	2 above	109	+15	0	0	2515*	+ 91	591	+32
	5. ENGLAND, SOUTH	78	46	65·8	53·8	59·5	2 above	123	+12	0	0	2621	− 34	445	+37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	45	62·9	51·9	57·2	3 above	106	+25	0	0	2174	+113	470	+36
	7. ENGLAND, N.W.	72	43	63·4	52·1	57·5	2 above	109	+16	0	0	2362	+110	453	+44
	8. ENGLAND, S.W.	72	43	64·4	53·6	58·7	2 above	117	+15	0	0	2586	+121	369	+51
	9. IRELAND, NORTH	69	38	61·4	51·1	56·0	2 above	98	+12	0	0	2143	− 38	374	+11
	10. IRELAND, SOUTH	71	41	63·7	51·2	57·2	1 above	106	+11	0	0	2469	− 4	325	+63
	—CHANNEL ISLANDS	70	55	65·1	57·1	60·9	1 above	132	+10	0	0	2909	+ 87	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 218.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	6 less	157	+ 1	26·3	− 5·8	21	− 3	24	− 2	1070	+134	31	+ 4
	1. SCOTLAND, EAST	5	3	4 less	133	− 2	18·6	− 2·6	24	− 3	27	− 4	1220	+149	35	+ 4
	2. ENGLAND, N.E.	3	4	2 less	116	− 9	14·7	− 2·4	28	− 3	31	− 4	1294	+216	37	+ 6
	3. ENGLAND, EAST	3	3	2 less	109	−16	12·6	− 4·2	26	−14	29	−17	1498	+162	42	+ 5
	4. MIDLAND COUNTIES	3	4	2 less	109	−11	17·9*	− 1·0	20	−10	22	−12	1263*	+151	38	+ 4
	5. ENGLAND, SOUTH	3	7	1 more	100	−17	16·3	− 2·0	23	−15	26	−17	1537	+182	45	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	7 less	135	−11	28·8	− 5·1	26	− 3	29	− 3	1313	+190	38	+ 5
	7. ENGLAND, N.W.	4	3	5 less	124	− 7	17·5	− 5·2	22	− 7	24	− 8	1420	+255	41	+ 8
	8. ENGLAND, S.W.	4	5	4 less	114	−22	22·6	− 3·7	21	−16	24	−19	1445	+ 79	43	+ 3
	9. IRELAND, NORTH	5	5	3 less	152	− 5	22·9	− 1·4	15	−12	17	−13	1119	+ 91	33	+ 3
	10. IRELAND, SOUTH	4	4	3 less	124	−18	22·5	− 4·7	23	−11	25	−13	1229	+ 60	36	+ 2
	— CHANNEL ISLANDS	4	2	5 less	130	− 4	19·2	− 1·2	30	−13	34	−15	1583	+ 28	48	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was mainly of a cloudy and an unsettled type. Rain fell almost daily in parts of Ireland and Scotland, but over the Kingdom generally it was chiefly confined to the earlier half of the week. Thunderstorms were experienced over the east of England—in some places on Tuesday and in others on Wednesday.

Temperature was above the mean in all districts—as much as 4° in Scotland N. The highest of the maxima occurred either on the 8th or 9th, when the thermometer rose to 78° in England S. (London), to 74° in England E. and the Midland counties and to 70° or more in nearly all other districts. The lowest of the minima were registered about the middle or latter part of the week ; they ranged from 38° in Ireland N. to 45° in England E. and Scotland W., and to 55° in the Channel Islands.

Rainfall was less than the mean in all districts excepting England S., where there was a slight excess. The large fall at Portland Bill at the end of the week was very local and probably of a "thunderstorm" nature.

Bright Sunshine was less than the mean over the entire Kingdom, and in most places the deficiency was rather large. The percentage of the possible duration ranged from 34 in the Channel Islands, 31 in England N.E. to 22 in the Midland Counties and 17 in Ireland N.

Barometer and Wind.—At the commencement of the week a rather large and deep depression lay off the west of Ireland, causing strong Southerly and South-Easterly winds or gales over all our western and northern coasts and moderate Southerly breezes elsewhere. By Monday this disturbance was passing away again and the strong winds had subsided. A new anticyclone then appeared to the south-westward of Ireland, and as a similar system was already in existence over Scandinavia, the distribution of pressure became complex ; during the remainder of the week shallow depressions of no great importance appeared over different parts of the United Kingdom and a well-marked disturbance extended westwards towards our south-eastern counties from Germany. This latter system caused North-Easterly breezes in the south and east, but in most other districts the wind was mainly South-Easterly.

* This value has been altered owing to the receipt of further information for a preceding week.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	58	46	56·6	50·3	53·3	+ 2·5	79	0	5	0·48	− 0·32	*	*	*	*
	Stornoway	67	45	63·3	49·0	55·8	+ 4·4	97	0	2	0·72	− 0·23	20·6	− 5·2	23	− 5
	Wick	64	40	60·3	49·0	54·3	+ 2·2	86	0	4	0·14	− 0·47	*	*	*	*
	Lairg ⚓	70	37	65·9	45·0	55·0	+ 3·7	91	0	3	0·07	− 0·64	*	*	*	*
	Glencarron ⚓	66	47	62·4	50·4	56·1	+ 4·5	99	0	4	1·19	− 0·58	*	*	*	*
	Fort Augustus ⚓	69	48	64·0	52·3	57·9	+ 4·4	111	0	3	0·20	− 0·71	23·6	+ 4·8	29	+ 8
	Fort William ⚓	66	47	62·7	52·9	57·6	+ 3·9	109	0	5	0·75	− 0·90	19·2	− 3·3	21	− 4
1. SCOTLAND, E.	Nairn	69	44	64·0	49·7	56·5	+ 3·4	102	0	4	0·08	− 0·52	*	*	*	*
	Aberdeen	67	47	61·9	51·1	56·2	+ 3·2	99	0	6	0·44	− 0·23	31·5	+ 2·0	35	+ 2
	Braemar ⚓	65	45	58·9	48·2	53·3	+ 3·5	79	0	4	0·30	− 0·48	*	*	*	*
	Ochtertyre ⚓	70	40	63·4	48·4	55·5	+ 2·0	95	0	4	0·18	− 0·64	*	*	*	*
	Leith ⚓	71	52	64·7	53·0	58·6	+ 3·5	116	0	4	0·15	− 0·36	*	*	*	*
	Marchmont ⚓	67	45	61·3	48·3	54·5	+ 1·8	88	0	5	0·47	− 0·26	17·0	− 10·6	19	− 12
2. ENGLAND, N.E.	Alnwick Castle	70	44	63·8	51·3	57·3	+ 2·8	107	0	4	0·50	− 0·12	*	*	*	*
	Durham	68	45	63·1	50·1	56·3	+ 1·9	100	0	3	0·50	− 0·02	27·2	− 0·8	30	− 1
	Shields	70	48	63·3	51·6	57·2	+ 2·6	106	0	4	0·14	− 0·38	*	*	*	*
	Scarborough ⚓	64	45	61·8	51·5	56·4	+ 0·9	101	0	4	0·19	− 0·39	27·5	?	31	?
	Spurn Head	69	54	65·0	55·6	60·1	+ 3·4	127	0	2	0·47	+ 0·05	*	*	*	*
	Fulbeck (Lincolnshire)	69	45	66·4	49·4	57·5	+ 2·6	109	0	3	0·39	− 0·11	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	74	45	67·0	52·8	59·6	+ 3·3	123	0	1	0·45	− 0·15	17·4	− 15·1	19	− 18
	Yarmouth	71	50	65·6	54·0	59·5	+ 2·3	123	0	2	0·16	− 0·44	*	*	*	*
	Geldeston	74	47	67·9	52·3	59·7	+ 2·9	124	0	4	0·26	− 0·28	25·3	− 11·9	28	− 14
	Cambridge	73	48	68·5	51.8	59·8	+ 2·6	125	0	3	0·37	− 0·11	21·9	− 13·4	25	− 15
	Felixstowe	72	48	66·8	53·8	60·0	+ 3·6	126	0	2	0·13	?	35·8†	?†	40†	?†
	Rothamsted	71	49	65·4	52·4	58·6	+ 2·8	116	0	3	0·46	− 0·12	18·6	− 16·2	21	− 18
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	40	66·9	45·6	55·7	+ 0·1	96	0	1	0·09	− 0·41	*	*	*	*
	Loughborough	74	48	67·3	50·1	58·3	+ 1·7	114	0	3	0·24	− 0·32	*	*	*	*
	Colly Weston (Stamford)	71	46	67·0	50·4	58·3	+ 1·9	114	0	4	0·59	?	*	*	*	*
	Cheadle ⚓	69	48	63·7	51·5	57·3	+ 3·0	107	0	2	0·26	− 0·46	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	70	50	64·4	52·3	58·1	+ 2·5	113	0	2	0·16	− 0·44	13·9	?	16	?
	Churchstoke ⚓	69	46	64·6	49·2	56·5	+ 2·1	102	0	3	0·33	− 0·29	23·1	− 9·7	26	− 11
	Hereford (Belmont) ⚓	70	43	65·6	49·5	57·1	+ 1·0	106	0	3	0·33	− 0·25	*	*	*	*
	Cirencester	69	48	64·9	52·1	58·2	+ 3·0	113	0	3	0·76	+ 0·08	22·3	− 10·7	25	− 12
	Oxford	70	48	65·7	52·3	58·7	+ 1·9	117	0	2	0·52	− 0·03	19·6	− 15·0	22	+ 17
5. ENGLAND, S.	London	78	50	68·6	54·3	61·1	+ 2·8	134	0	2	0·35	− 0·17	13·1†	− 17·6†	15†	− 20†
	Swarraton (Alresford) ⚓	69	46	64·2	51·2	57·4	+ 1·9	108	0	3	0·49	− 0·18	*	*	*	*
	Dungeness	69	48	66·7	53·1	59·6	+ 1·0	123	0	2	0·19	− 0·39	31·3	?	35	?
	Hastings (St. Leonards)	69	51	67·3	54·4	60·5	+ 1·9	130	0	3	0·24	− 0·38	38·0	− 2·2	43	− 2
	Southampton	70	49	66·1	54·4	60·0	+ 1·5	126	0	3	0·45	− 0·20	14·4	− 23·6	16	− 27
	Portland Bill	68	50	64·7	55·9	60·1	+ 1·6	127	0	4	1·24	?	*	*	*	*
	Shaftesbury ⚓	68	49	63·0	53·2	57·9	+ 1·8	111	0	3	0·60	− 0·16	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	49	62·2	52·5	57·1	+ 3·3	106	0	5	1·15	− 0·45	*	*	*	*
	Glasgow	64	50	62·2	52·4	57·1	+ 3·7	106	0	3	0·30	− 0·58	19·5	− 3·5	22	− 4
	Glenlee ⚓	67	47	63·8	50·3	56·7	+ 3·4	103	0	4	0·17	− 0·95	*	*	*	*
	Douglas (Isle of Man)	68	45	63·5	52·4	57·7	+ 3·3	110	0	3	0·19	− 0·65	32·4	− 1·6	36	− 2
7. ENGLAND, N.W.	Newton Reigny	66	43	62·1	48·3	54·9	+ 1·5	90	0	2	0·25	?	15·3	?	17	?
	Stonyhurst	65	47	63·3	50·8	56·8	+ 2·3	104	0	3	0·27	− 0·87	19·9	− 9·6	22	− 11
	Blackpool ⚓	69	45	64·1	51·8	57·7	+ 1·9	110	0	3	0·13	− 0·67	23·7	− 5·3	26	− 7
	Manchester (Prestwich)	71	48	64·6	51·6	57·8	+ 3·0	111	0	2	0·12	− 0·78	13·4	?	15	?
	Liverpool Obsy. (Bidston)	69	52	62·7	53·4	57·8	+ 1·4	111	0	6	0·30	− 0·42	18·0	?	20	?
	Chester (Hawarden Bridge)	72	46	65·0	52·1	58·2	+ 1·2	113	0	4	0·39	?	*	*	*	*
	Llandudno ⚓	71	51	64·2	54·8	59·3	+ 2·1	121	0	5	0·51	− 0·18	24·2	− 5·8	27	− 7
	Holyhead	64	48	61·4	53·6	57·3	+ 0·7	107	0	5	0·57	− 0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	43	64·0	51·4	57·4	+ 2·0	108	0	7	1·02	0·00	*	*	*	*
	Pembroke	64	51	62·0	54·0	57·8	+ 0·9	111	0	4	0·12	− 0·62	17·8	− 17·7	20	− 20
	Clifton	70	51	64·1	54·7	59·2	+ 2·4	120	0	4	0·36	− 0·42	*	*	*	*
	Bath	71	49	66·3	53·9	59·8	+ 2·4	125	0	3	0·51	?	22·0	?	25	?
	Arlington (N. Devon)	68	47	62·6	50·9	56·5	+ 1·1	102	0	3	0·27	− 0·85	*	*	*	*
	Cullompton ⚓	72	43	67·4	53·0	59·9	+ 2·5	125	0	3	0·17	− 0·56	21·1	− 13·3	24	− 15
	Falmouth	67	51	63·9	55·2	59·3	+ 1·7	121	0	5	0·64	− 0·31	28·8	− 9·7	32	− 12
	Plymouth	67	53	64·7	55·6	59·9	+ 2·1	125	0	6	0·69	− 0·08	22·2	− 14·8	25	− 17
9. IRELAND, N.	Malin Head	67	49	61·1	53·4	57·1	+ 2·2	106	0	6	0·61	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	68	38	61·0	49·7	55·1	+ 2·0	92	0	5	0·67	− 0·15	*	*	*	*
	Blacksod Point	64	41	60·7	50·7	55·5	− 0·2	95	0	4	0·22	?	*	*	*	*
	Markree Castle	67	42	62·2	49·3	55·4	+ 1·8	94	0	4	0·30	− 0·60	17·5	− 8·2	19	− 10
	Armagh	69	40	62·6	51·0	56·5	+ 2·7	102	0	5	0·23	− 0·44	13·3	− 14·0	15	− 15
	Donaghadee	63	47	61·0	52·6	56·6	+ 1·8	102	0	6	0·76	+ 0·11	*	*	*	*
10. IRELAND, S	Dublin	71	49	64·6	54·0	59·1	+ 3·0	120	0	4	0·50	− 0·02	17·5	− 16·5	19	− 19
	Parsonstown	70	42	63·7	49·9	56·5	+ 1·9	102	0	4	0·08	− 0·62	19·9	− 10·3	22	− 12
	Kilkenny	67	41	63·3	48·7	55·7	+ 0·3	96	0	5	0·16	− 0·48	*	*	*	*
	Roche's Point	69	47	63·9	52·4	57·9	+ 1·1	111	0	3	0·10	− 0·73	*	*	*	*
	Valencia	65	46	62·6	52·3	57·2	+ 0·4	106	0	5	0·68	− 0·32	26·2	− 5·6	29	− 6
	Killarney	68	46	65·2	51·6	58·1	+ 2·3	113	0	5	1·50	+ 0·59	*	*	*	*
	Foynes	64	43	62·3	49·5	55·6	+ 0·1	95	0	2	0·09	− 0·62	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	56	63·6	56·7	60·0	+ 1·2	126	0	3	0·10	− 0·62	27·2	?	31	?
	Jersey	70	55	66·6	57·4	61·8	+ 1·2	139	0	4	0·33	− 0·37	33·1	− 11·1	37	− 14

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

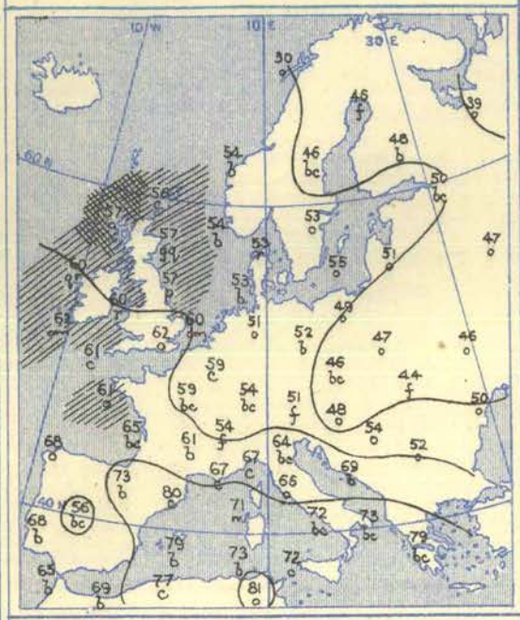
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 8th September.

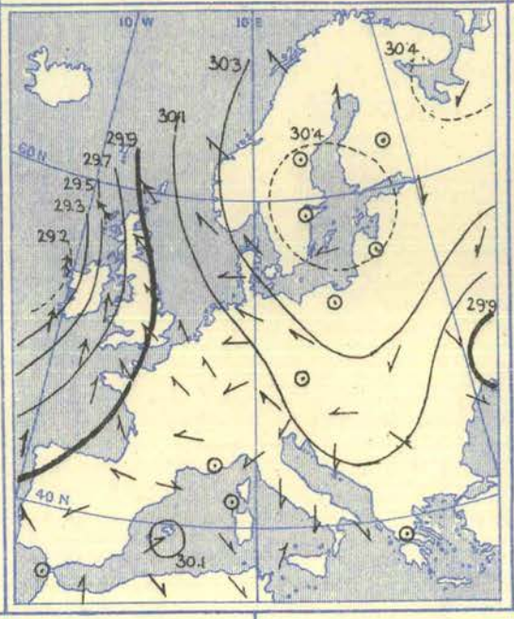
Temperature and Weather.

8 a.m.

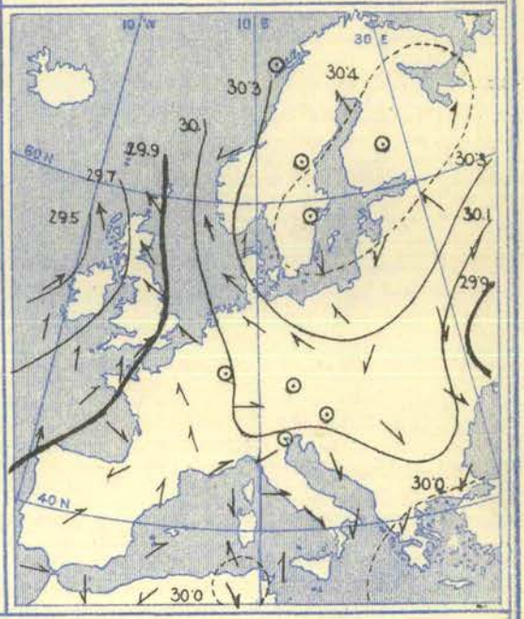


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull generally over the United Kingdom, and squally and rainy in many places, but fine over the greater part of the Continent. Rain later over our Islands, the north-east of France and the Netherlands—in the southern and central parts of England the fall was considerable.

Temperature risen over our Islands and the neighbouring parts of the Continent. Morning readings highest, 81° at Tunis, 80° at Barcelona, 79° at Palma and Athens, 77° at Sanguinaires and Algiers, 73° at Cagliari and Brindisi, and 72° at Naples and Palermo. Lowest, 38° at Kharkov, 39° at Archangel, 44° at Lemberg and 45° at Karlstadt, below 50° over Russia generally. Rising during day to 78° in London and 70° at Jersey and Parsonstown; exceeding 80° over France and Italy and reaching 95° at Bilbao, 99° at Tunis, and 100° at Biskra.

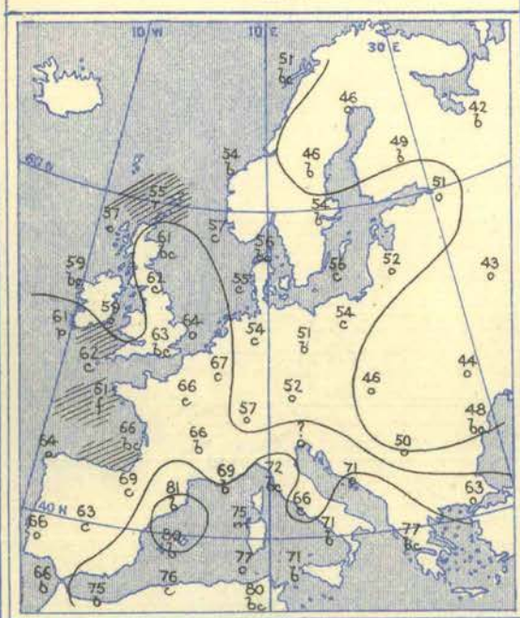
Wind Southerly over Ireland, Wales and the Irish Sea, South-Easterly over France, the east of England and in Scotland, blowing a gale at most of our northern and western stations, but moderate in force elsewhere, chiefly Easterly on the eastern shores of the North Sea, and light and variable over the Continent generally. Moderating in force on our western coasts later, but changing very little elsewhere.

Barometer highest, 30·4 ins. and upwards in two high-pressure areas lying over the north of Russia and the Baltic provinces respectively. Lowest, 29·2 ins. and less in a depression off the west coast of Ireland, and 29·9 ins. and less in another disturbance over the south of Russia. Depression off Irish coast travelling northwards later, that over the south of Russia remaining almost stationary.

Monday, 9th September.

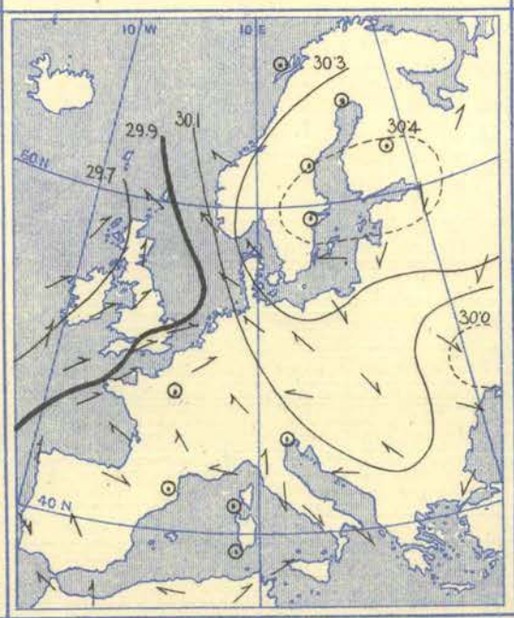
Temperature and Weather.

8 a.m.

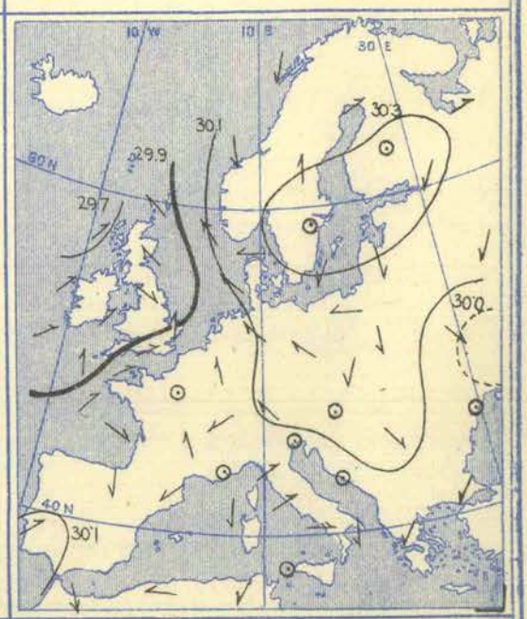


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable over the United Kingdom, with rain in places, cloudy in Russia, but fair or fine on the Continent generally, especially over Scandinavia. Rain later in small quantities over our Islands, except at our southern and south-western stations, and considerable falls in France, Germany, and northern Italy, with thunderstorms over the south of France and also at Paris.

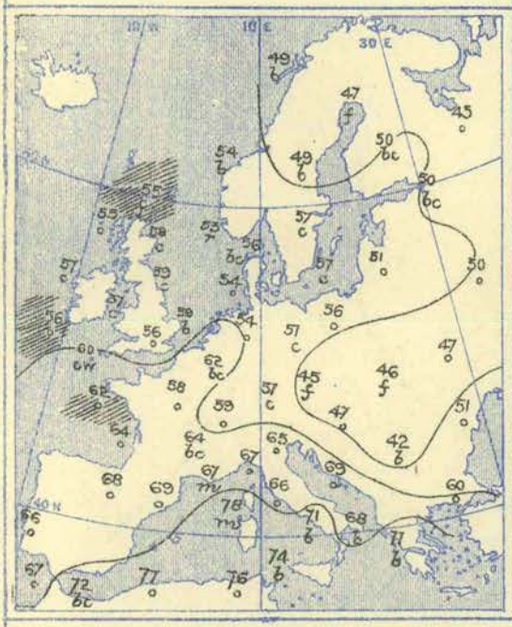
Temperature risen a little in most places. Morning readings highest, 81° at Barcelona, 80° at Tunis and Palma, 79° at Sfax, 77° at Patras and Cagliari, and 76° at Algiers. Lowest, 42° at Archangel, 43° at Moscow, 44° at Kiev, 46° at Haparanda and Hernösand, and at several Austrian stations. Rising during day to above 70° over England, exceeding 80° at several French and Italian stations, and over southern Europe generally, the highest readings of all being 95° at Aumale and 99° at Tunis.

Wind South-Easterly to South-Westerly over our Islands and light in force, South-Easterly over Germany and Scandinavia, light and variable, chiefly from the Eastward at the Continental stations generally. No change of importance later.

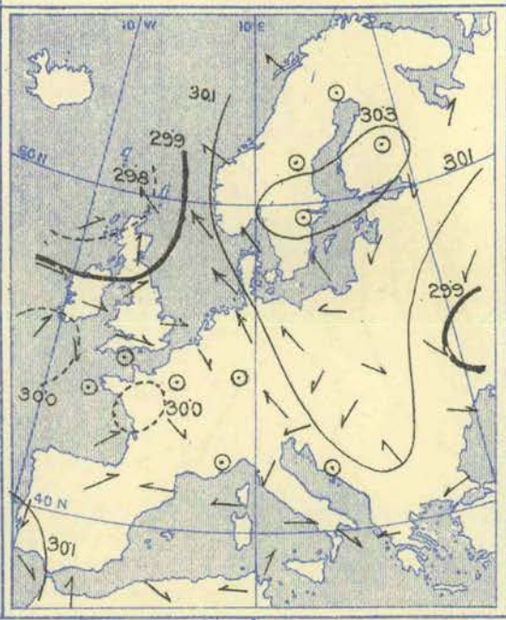
Barometer highest, 30·4 ins. and upwards in an anticyclone over the Baltic Provinces. Lowest, 29·7 ins. and less in a depression lying off our western and north-western coasts, and 30·0 ins. and less in another system over the south of Russia. Depression off western coast filling up and travelling northwards later. Russian disturbance scarcely changing its position.

Tuesday, 10th September.

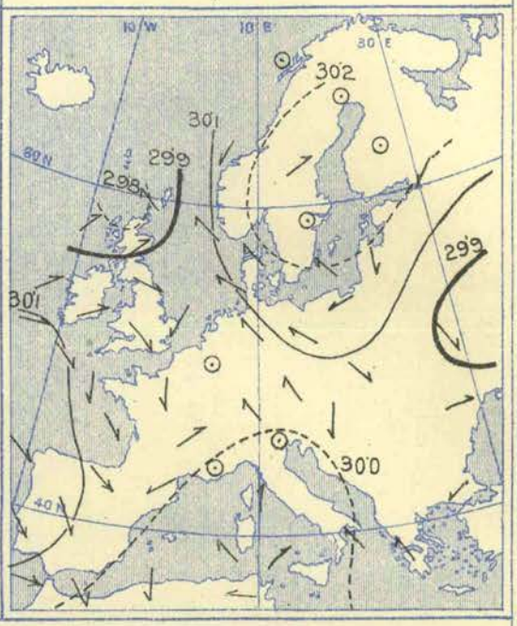
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull at our northern and western stations, and also over Russia; fair elsewhere, but air very humid over England and France. Rain later over the greater part of the United Kingdom, and a thunderstorm at Spurn Head. Large quantities of rain also during thunderstorms over the central and southern parts of France.

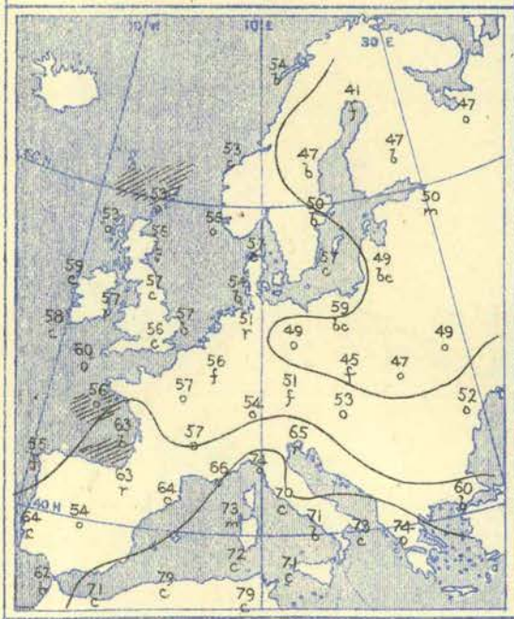
Temperature fallen somewhat over our Islands, France and central Europe, risen over Scandinavia, but changed irregularly elsewhere. Morning readings highest, 81° at Sfax, 78° at Sanguinaires, 77° at Algiers and Patras, and 76° at La Calle. Above 60° over southern Europe generally. Lowest, (1) 42° at Hermanstadt, 41° at Cracow, 45° at Vienna; (2) 45° at Archangel, 47° at Uleaborg, 48° at Hangö, and 49° at Bodö and Hernösand. Rising during day to 71° at Leith and in London, to above 70° over France; exceeding 80° in many parts of Spain and Italy, and reaching 95° at Aumale, and 99° at Tunis and Biskra.

Wind light to moderate from the South-Westward on our northern and north-western coasts and from South-East in the west of Norway, Denmark, the Baltic and Germany. Light cyclonic circulation over southern Russia, and varying light airs over southern Europe generally. Veering Westwards later over our Islands. No material change elsewhere.

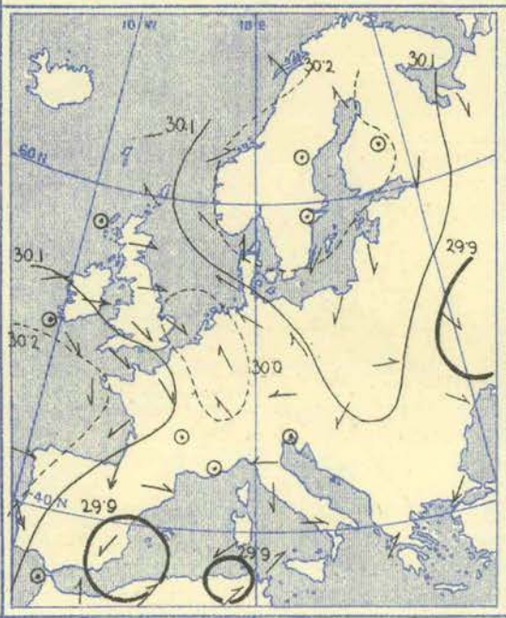
Barometer highest, 30·3 ins. in an anticyclone over the Baltic and the neighbouring parts of the Continent, 30·1 ins. and upwards off the south-west coast of Spain, and 30·0 ins. over central France. Lowest, 29·8 ins. and less over the north-west of Scotland, and 29·9 ins. and less over southern Russia. Depression in north-west travelling northwards later, that over Russia still remaining almost stationary.

Wednesday, 11th September.

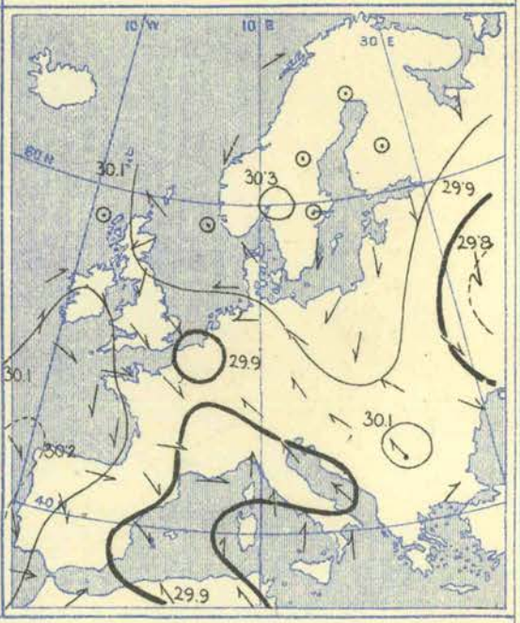
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the east and north of Scotland, and over Scandinavia; cloudy over England and Ireland with slight rain in Wales as well as at several stations in the south of England. Cloudy over the Continent generally with fog in some parts of Austria, and rain at Cuxhaven and Biarritz. Some rain later over our Islands, larger quantities in Germany, Italy and the east of France, where thunderstorms occurred; as much as 1·02 ins. at Belfort and 2·09 ins. at Rome.

Temperature changed little and irregularly. Morning readings highest, 81° at Alicante, 79° at La Calle and Algiers, 74° at Leghorn, Patras and Tunis and 73° at Sanguinaires and Brindisi. Lowest, (1) 41° at Uleaborg and 47° at Archangel and Kuopio. (2) 43° at Breslau, 45° at Cracow and 47° at Lemberg. Not exceeding 67° at any of our stations later, but rising to above 70° over France and Spain, to above 80° in Italy, and reaching 99° at Tunis and Biskra.

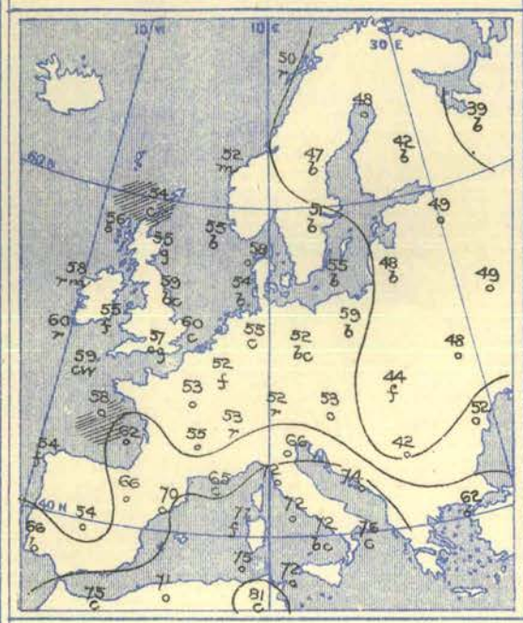
Wind light generally, mainly Westerly in Scotland, Westerly and South-Westerly in the north of England and north of Ireland, North-Westerly in the south of England and north of France, North-Easterly over the Bay of Biscay. South-Easterly to the eastward of the North Sea, still cyclonic over southern Russia, but light and variable elsewhere. No important change later.

Barometer highest, 30·2 ins. and upwards in an anticyclone over Scandinavia and the Baltic Provinces, and also over the Bay of Biscay. Lowest, 29·9 ins. and less over southern Russia, and in two small depressions over the Mediterranean and Tunis, and 30·0 ins. and less in a shallow disturbance lying over the east of England, Belgium and the east of France. Latter depression moving eastwards later, those over the Mediterranean dispersing, Russian disturbance still scarcely changing its position.

Thursday, 12th September.

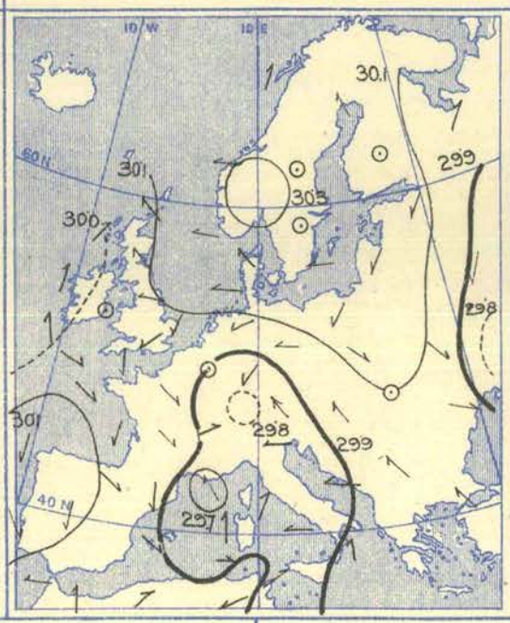
Temperature and Weather.

8 a.m.

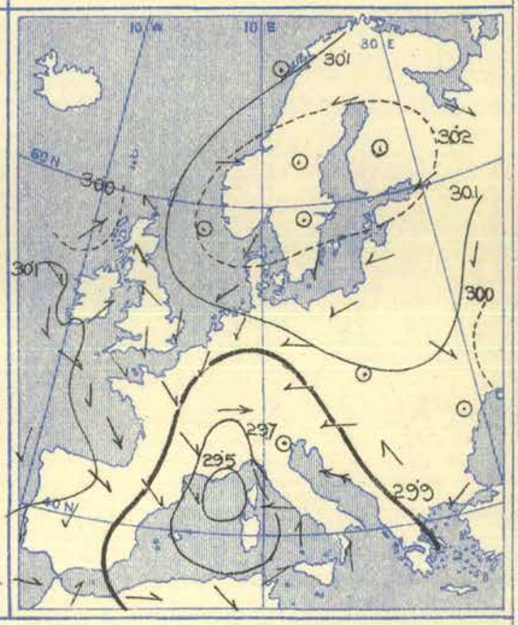


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scandinavia and northern Russia, but cloudy or dull generally, with rain in Ireland, at Belfort and Munich, and also at Bodö; fog at Brussels and Lemberg. Slight rain later over Ireland and Scotland, and in larger quantities over the south-east of France, Italy and southern Germany. Thunderstorms reported from Tunis.

Temperature fallen a little in most places. Morning readings highest, 81° at Tunis and Sfax, 77° at Sanguinaires, 76° at Brindisi, 75° at Nemours and Cagliari, and 74° at Lesina. Lowest, 39° at Archangel, 42° at Kuopio and Hermanstadt, 44° at Lemberg, and 46° at Warsaw, below 50° over eastern Europe generally. Rising during day to above 60° over our Islands, and reaching 68° at Nairn and Portland Bill, exceeding 70° over France, and touching 81° at Nice. Higher maxima recorded over Italy and Algeria, thermometer rising to 86° at La Calle, 88° at Brindisi and Palermo and 90° at Cagliari.

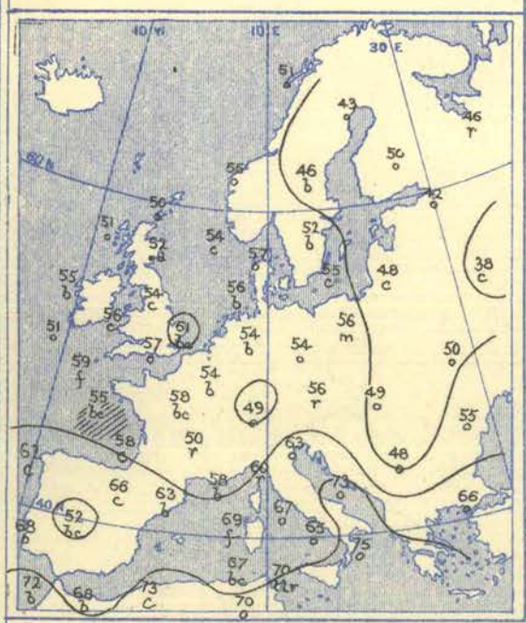
Wind mainly Easterly over Scandinavia, Northerly over England, and also at most of the Russian stations, North-Westerly to Westerly in France, light from Southward or South-Eastward in Ireland and Scotland. Several cyclonic circulations over central and southern Europe. Veering Northwards later in Ireland and increasing to a fresh gale from the Eastward at Lesina. No material change elsewhere.

Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone over the North Sea, Scandinavia and the west of Russia, and 30·1 ins. over the Bay of Biscay and the greater part of the Spanish Peninsula. Lowest, 29·8 ins. and less over southern Russia, 29·9 ins. and less in a large area with several minima stretching from the Mediterranean to southern and central Europe, and 30·0 ins. and less off our western and north-western coasts. Depression off our western coasts moving northwards later, that over southern Europe becoming deeper. High pressure over Bay of Biscay increasing in size, and barometer rising decidedly in Ireland.

Friday, 13th September.

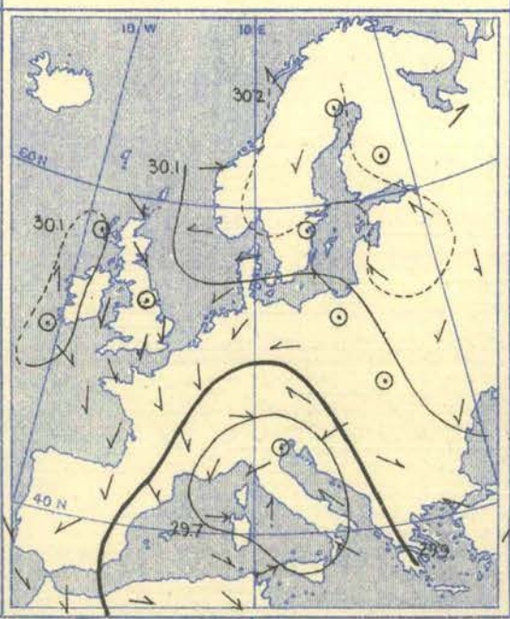
Temperature and Weather.

8 a.m.

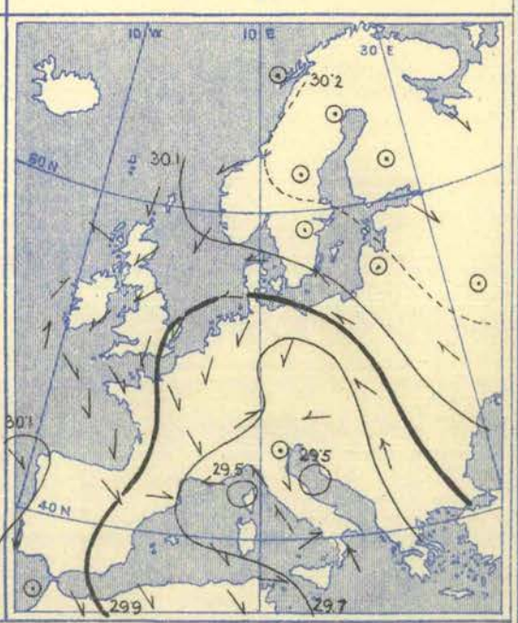


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over northern Europe and over the British Isles as a whole, but slight rain reported at Archangel and Aberdeen, and a thunderstorm at Palermo. Bright over the Netherlands, dull over central Europe, rainy in many parts of France and at Leghorn. Rain falling later over Ireland and the Irish Sea and a large quantity over central Europe and Italy.

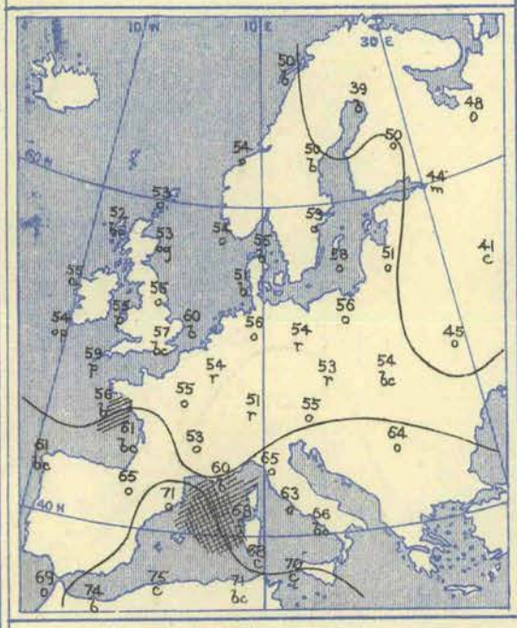
Temperature risen over Finland and northern Russia, fallen in our Islands. Morning readings highest, 75° at Brindisi and Sfax, 74° at La Calle, 73° at Algiers and Barcelona, 59° at Scilly and Dungeness, 50° or more all over north-western Europe. Lowest, 38° at Moscow, 43° at Karlstadt, 46° at Archangel, Haparanda and Hernosand, 48° at Riga and Warsaw. Rising later to between 60° and 68° over the United Kingdom, to 70° at Lorient, 74° at Nice, 85° at Brindisi, 88° at Oran.

Wind mainly North-Easterly, but light and variable over northern Europe and in Ireland, chiefly Northerly and light over our Islands and France, chiefly Easterly over central Europe. North-Westerly over the western and southern parts of the Mediterranean. Southerly breeze appearing in the west of Ireland later but Continental condition remaining very complex.

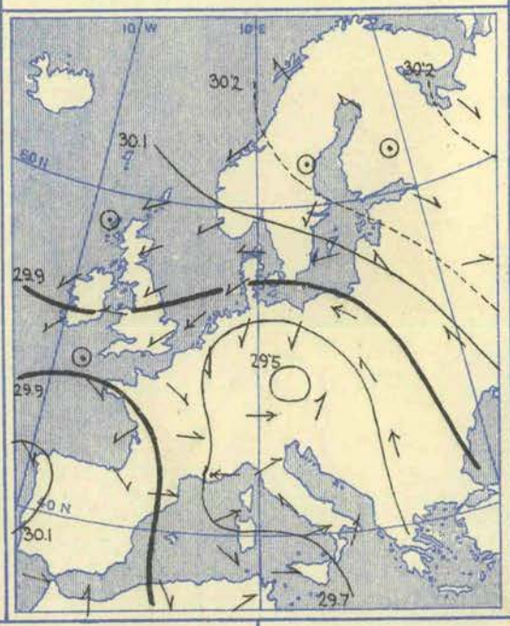
Barometer in morning highest, 30·2 ins. and more to 30·1 ins. in a complex anticyclone lying over northern Europe and exceeding 30·1 ins. in another of slight intensity over the west of Ireland. Lowest, 29·61 ins. at Nice and Marseilles, and below 29·7 ins. over Corsica, the Riviera and northern Italy. Gradients not steep anywhere. The Irish anticyclone disappearing later; the depression over southern Europe becoming more complex and intense and developing on its north-eastern margin.

Saturday, 14th September.

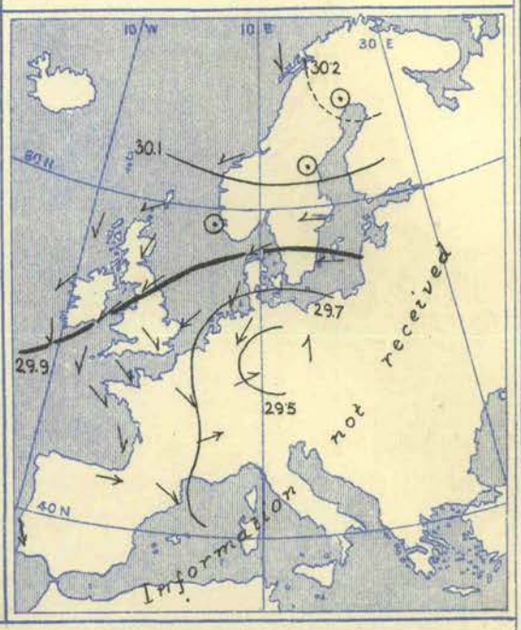
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over northern Europe, the North Sea, and the northern and eastern parts of Great Britain, less settled on our western coasts and in the west of France, very disturbed and rainy over Germany and the east of France. Much rain later over the south of France and central Europe, a little at most of our southern stations, but a heavy fall at Portland Bill. Lightning at Jersey, thunder at Lorient.

Temperature risen over central Europe, little changed elsewhere. Morning readings highest, 75° at Algiers, and above 70° at several stations on the southern and eastern sides of the Mediterranean, 65° at Biarritz, 59° at Scilly, and above 50° in most other places. Lowest, 39° at Uleaborg, 41° at Haparanda, Moscow and Kharkov, 44° at St. Petersburg, 45° at Lemberg, 48° at Hangö. Rising later to 54° at Bodö, 57° at Sumburgh Head, 58° at Holyhead, 60° and more in many parts of our islands, 68° in London, 70° at Rochefort, and 73° at Nice.

Wind Easterly over the northern parts of Europe and the British Islands, North-Easterly over Ireland, England, and the North Sea, North-Westerly, variable over France, Westerly over the Mediterranean, South-Easterly over eastern Germany, No decided change later except in the south of France and south Germany, where the Westerly wind became more decided, and at Berlin, where a faint Southerly breeze set in.

Barometer highest, 30·2 ins. and more to 30·1 ins. over northern Europe generally, and exceeding 30·1 ins. over Portugal. Lowest, 29·6 ins. to 29·5 ins. in a complex disturbance over the north of Italy, the Adriatic, Dalmatia, and extending north-westerly over central Europe. Falling later lower than 29·5 ins. over central Europe, and the depression there moving west-north-west. Barometer rising slightly in Ireland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of this week pressure was highest (30·46 ins. to 30·3 ins.) over northern Europe whence it decreased gradually to a little above 30·0 ins. over the Mediterranean and somewhat abruptly to 29·2 ins. and less off the north-west of Ireland, near which position lay a depression of considerable intensity. Temperature ranging from 81° at Tunis to 62° or 60° in the west of Ireland, to 46° at Hernosand and 39° at Archangel. Southerly winds strong to a gale in force, were prevalent on our own western coasts with rain. South-Easterly in Scotland and moderate South-Easterly breezes at our eastern and southern stations; but over the Continent the wind was light in force, very variable in direction, and the weather was fine. In the next day or two the western depression passed completely away to the Northward, the northern anticyclone decreased in intensity while a new anticyclonic system was developed over Portugal and the Bay of Biscay, and extending northward reached Ireland on a ridge by Tuesday night. Two other slight cyclonic disturbances subsequently touched our extreme western stations without spreading inland.

Depressions now began to develop over the Mediterranean and to spread thence in a northerly direction to central Europe. Here they were joined by another which was developed on Tuesday night over the North Sea and increased in intensity, so that on Saturday there was a deep system formed, and tending to move westwards. It caused much rain and some thunderstorms over southern and central Europe, but beyond producing strong chilly northerly breezes at our eastern stations, did very little to disturb the weather of the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	24·6	- 0·6	27	- 1	BRIGHTON	24·4	-15·6	27	-18
STRATHPEFFER SPA	16·8	-10·4	18	-12	WORTHING	22·8	?	26	?
EDINBURGH	24·8	+ 0·8	28	0	BOGNOR	22·8*	?	26*	?
MORPETH	36·4	?	40	?	WATERGATE (Emsworth)	9·7	?	11	?
NEWCASTLE-ON-TYNE	26·9	?	30	?	WESTBOURNE (Emsworth)	15·0*	-24·1	17*	-27
OSWALDKIRK (Yorkshire)	22·0	- 5·5	24	- 7	VENTNOR HOSPITAL	15·3	-26·0	17	-30
YORK		?		?	BOURNEMOUTH	19·3	?	22	?
LOWESTOFT	33·5	?	38	?	SOUTHPORT	22·4	?	25	?
HOLLESLEY BAY	30·9	?	35	?	RHYL	*	?	*	?
SHEFFIELD	16·8	?	19	?	COLWYN BAY	26·6	?	30	?
WORKSOP	24·0	- 4·0	27	- 5	ABERDOVEY	32·7*	?	36*	?
THURCASTON (Leicestershire)	19·0	-11·0	21	-13	TENBY	16·5	-20·5	18	-23
MARGATE	31·1	- 4·1	35	- 5	NEWQUAY				
BROADSTAIRS	35·7	?	40	?	TORQUAY	18·3	-20·2	21	-23
EASTBOURNE	32·7	- 7·3	37	- 8	CAHIR (Duneske)	26·6*	?	30*	?
					GUERNSEY	29·3*	-13·7	33*	-15

The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 38.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 21ST, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 224.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	35	60·0	47·0	52·9	2 above	76	+14	0	− 2	1977	+288	561	− 6
	1. SCOTLAND, EAST	68	30	60·2	45·7	52·6	1 above	74	+ 3	0	− 2	2126	+114	657	+42
	2. ENGLAND, N.E.	67	42	61·8	48·5	54·8	1 above	90	+ 9	0	− 1	2375	+185	516	+ 8
	3. ENGLAND, EAST	71	37	64·2	50·3	57·0	1 above	105	+11	0	− 1	2603	+ 63	560	+ 7
	4. MIDLAND COUNTIES	69	36	63·2	48·0	55·2	1 above	92	+ 8	0	− 1	2607	+ 99	591	+31
	5. ENGLAND, SOUTH	68	36	64·0	51·8	57·6	1 above	109	+ 8	0	− 1	2730	− 26	445	+36
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	33	59·9	49·0	54·2	1 above	85	+11	0	− 1	2259	+124	470	+35
	7. ENGLAND, N.W.	69	31	63·0	49·2	55·8	1 above	97	+12	0	− 1	2459	+122	453	+43
	8. ENGLAND, S.W.	67	37	62·6	50·9	56·5	1 above	102	+ 7	0	0	2688	+128	369	+51
	9. IRELAND, NORTH	63	36	59·7	49·7	54·5	1 above	88	+10	0	− 1	2231	− 28	374	+10
	10. IRELAND, SOUTH	65	37	61·9	49·9	55·6	1 above	95	+ 8	0	− 1	2564	+ 4	325	+62
	—CHANNEL ISLANDS	69	46	65·6	55·4	60·2	1 above	127	+11	0	0	3036	+ 98	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 224.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10	1 less	161	0	27·3	− 5·9	23	0	26	0	1093	+136	31	+ 4
	1. SCOTLAND, EAST	5	7	0 (average)	138	0	19·3	− 2·6	28	+ 2	32	+ 2	1248	+151	35	+ 4
	2. ENGLAND, N.E.	4	6	1 more	120	− 8	15·3	− 2·3	24	− 3	28	− 3	1318	+213	37	+ 6
	3. ENGLAND, EAST	4	6	0 (average)	113	−15	13·2	− 4·2	25	−10	29	−12	1523	+152	41	+ 4
	4. MIDLAND COUNTIES	4	8	2 more	113	−10	18·7	− 0·8	20	− 9	23	−10	1284	+143	37	+ 3
	5. ENGLAND, SOUTH	4	13	6 more	104	−16	17·6	− 1·4	22	−14	26	−17	1559	+167	44	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	16	5 more	140	−11	30·4	− 4·6	27	0	32	0	1340	+190	38	+ 5
	7. ENGLAND, N.W.	5	5	3 less	129	− 6	18·0	− 5·5	28	− 2	32	− 2	1449*	+254	40	+ 7
	8. ENGLAND, S.W.	5	14	5 more	119	−20	24·0	− 3·2	31	− 3	36	− 2	1476*	+ 78	43	+ 3
	9. IRELAND, NORTH	6	13	5 more	158	− 4	24·2	− 0·8	26	0	30	0	1145	+ 92	32	+ 2
	10. IRELAND, SOUTH	6	22	15 more	130	−16	24·7	− 3·3	28	− 3	33	− 3	1257	+ 57	36	+ 2
	— CHANNEL ISLANDS	5	11	3 more	135	− 3	20·2	− 0·9	36	− 9	42	−10	1619	+ 19	47	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was mostly dull and unsettled, with rain at frequent intervals in all parts of the Kingdom. The falls in the west and south of England were occasionally rather heavy, and those in the south and west of Ireland unusually large.

Temperature was again rather above the mean; 2° in Scotland N. and 1° in all other districts. The highest of the maxima were registered, as a general rule, towards the end of the period, and ranged from 71° in England E. and 69° in Scotland N., England N.W., the Midland Counties and the Channel Islands, to 63° in Scotland W. and Ireland N. The lowest of the minima, which were recorded on the 16th, ranged from 30° in Scotland E., 31° in England N.W., and 33° in Scotland W., to 42° in England N.E. and to 46° in the Channel Islands.

Rainfall was rather less than the mean in Scotland N. and England N.W., and only just equal to it in Scotland E. and England E. ; in all other districts, however, there was an excess, that in England S. and the western districts being large. In Ireland S. the fall was three times as much as the mean.

Bright Sunshine was again deficient generally, but was distributed fairly equally over the Kingdom. The percentage of possible duration ranged from between 23 and 36 in all districts excepting the Channel Islands, where it amounted to 42.

Barometer and Wind.—Frequent depressions appeared from the Atlantic over our Islands or their immediate neighbourhood, some of which, with their secondaries, passed north-eastwards completely over the country. These systems were, as a rule, of only moderate intensity, but the disturbance whose centre lay to the north-westward of Ireland on Friday was both large and deep, and caused the wind to increase to a strong breeze from between South-West and South-East on nearly all our coasts, and to a moderate or fresh gale at several of our western and north-western ports. By Saturday the depression had receded north-westwards again over the Atlantic, and the winds had fallen to a light or moderate breeze.

NOTE.—A shock of Earthquake was experienced in the north of Scotland early on the morning of the 18th.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 223 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	45	55·9	47·3	51·4	+ 1·4	66	0	5	2·04	+ 1·22	*	*	*	*
	Stornoway	62	41	60·7	45·4	52·7	+ 2·1	75	0	4	1·30	+ 0·31	28·7	+ 4·1	33	+ 5
	Wick	59	35	57·9	45·1	51·2	0·0	64	0	4	0·15	- 0·49	*	*	*	*
	Lairg Ş	66	40	61·7	45·0	53·0	+ 3·2	77	0	4	0·59	- 0·15	*	*	*	*
	Glencarron Ş	64	43	60·1	47·8	53·7	+ 3·2	82	0	4	0·72	- 1·11	*	*	*	*
	Fort Augustus Ş	69	41	62·5	48·5	55·2	+ 2·8	92	0	4	0·28	- 0·67	25·9	+ 7·9	30	+ 9
	Fort William Ş	64	44	61·0	49·6	53·0	+ 0·3	77	0	4	1·77	+ 0·07	21·9	+ 0·1	25	0
1. SCOTLAND, E.	Nairn	68	34	62·1	43·6	52·4	+ 0·1	73	0	4	0·19	- 0·39	*	*	*	*
	Aberdeen	63	42	58·9	47·0	52·7	+ 0·2	75	0	5	0·74	+ 0·06	27·1	- 1·1	31	- 2
	Braemar Ş	58	30	56·5	42·8	49·3	+ 0·4	51	0	5	1·04	+ 0·26	*	*	*	*
	Ochtertyre Ş	65	36	61·6	46·6	53·7	+ 1·3	82	0	5	1·55	+ 0·74	*	*	*	*
	Leith	68	44	62·6	49·0	55·5	+ 1·4	95	0	3	0·13	- 0·37	*	*	*	*
	Marchmont Ş	64	42	59·9	45·1	52·1	+ 0·4	71	0	5	0·40	- 0·32	30·8	+ 5·0	36	+ 6
2. ENGLAND, N.E.	Alnwick Castle	65	43	60·4	47·2	53·5	+ 0·9	81	0	5	1·06	+ 0·43	*	*	*	*
	Durham	63	43	60·5	48·5	54·2	+ 0·8	85	0	5	0·52	0·00	25·3	- 1·2	29	- 2
	Shields	65	42	61·0	48·1	54·2	+ 0·5	85	0	4	0·63	+ 0·12	*	*	*	*
	Scarborough Ṁ	67	45	62·3	50·2	56·0	+ 1·5	98	0	4	0·41	- 0·17	26·1	?	30	?
	Spurn Head	65	47	62·4	51·1	56·5	+ 0·6	102	0	3	0·31	- 0·12	*	*	*	*
	Fulbeck (Lincolnshire)	66	42	64·1	45·9	54·6	- 0·5	88	0	4	0·52	+ 0·03	*	*	*	*
3. ENGLAND, E.	Hillington Ṁ	71	43	65·5	50·0	57·4	+ 2·3	108	0	4	0·42	- 0·18	21·7	- 8·9	25	-11
	Yarmouth	65	49	62·3	52·9	57·4	+ 1·4	108	0	4	0·51	- 0·11	*	*	*	*
	Geldeston	67	44	64·9	50·7	57·3	+ 1·4	107	0	4	0·64	+ 0·09	24·4	-10·8	29	-12
	Cambridge	70	39	66·4	48·2	56·9	+ 0·7	104	0	4	0·64	+ 0·15	28·0	- 5·8	33	- 6
	Felixstowe	64	46	62·9	52·9	57·7	+ 2·2	110	0	4	0·70	?	30·3†	?†	35†	?†
	Rothamsted	67	37	63·4	47·3	55·0	+ 0·4	91	0	4	0·73	+ 0·13	16·6	-15·4	19	-19
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	38	63·7	46·6	54·7	+ 0·1	89	0	5	0·66	+ 0·14	*	*	*	*
	Loughborough	67	36	65·0	47·3	55·7	+ 1·3	96	0	4	0·59	+ 0·02	*	*	*	*
	Colly Weston (Stamford)	68	41	67·1	47·7	56·9	+ 1·5	104	0	4	0·82	?	*	*	*	*
	Cheadle Ṁ	65	43	60·6	48·4	54·2	+ 0·9	85	0	4	0·64	- 0·08	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	64	45	61·9	50·0	55·7	+ 1·1	96	0	5	0·47	- 0·13	15·8	?	18	?
	Churchstoke Ṁ	64	43	62·1	47·7	54·6	+ 1·4	88	0	4	0·80	+ 0·16	24·6	- 6·4	29	- 7
	Hereford (Belmont) Ṁ	66	40	63·7	48·3	55·6	+ 0·7	95	0	4	0·89	+ 0·29	*	*	*	*
	Cirencester	63	39	61·7	48·3	54·7	+ 0·4	89	0	5	1·37	+ 0·69	20·4	-10·6	24	-12
	Oxford	65	39	63·0	48·0	55·1	- 0·5	92	0	4	1·29	+ 0·72	17·9	-15·0	21	-17
5. ENGLAND, S.	London	67	42	65·6	50·1	57·5	+ 0·3	109	0	4	1·08	+ 0·56	14·9†	-13·7†	17†	-16†
	Swarraton (Alresford) Ṁ	66	36	63·6	48·0	55·4	+ 0·8	94	0	5	1·36	+ 0·67	*	*	*	*
	Dungeness	67	43	64·9	53·0	58·7	+ 0·9	117	0	4	0·80	+ 0·20	20·7	?	24	?
	Hastings (St. Leonards)	65	47	63·2	53·5	58·1	+ 0·5	113	0	3	0·57	- 0·10	21·8	-16·7	26	-18
	Southampton	68	45	66·4	52·3	59·0	+ 1·8	119	0	5	1·45	+ 0·77	26·0	- 9·8	30	-12
	Portland Bill	64	51	62·3	54·7	58·3	+ 0·7	114	0	5	1·53	?	*	*	*	*
	Shaftesbury Ṁ	65	47	61·7	51·0	56·1	+ 1·3	99	0	5	2·02	+ 1·23	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	41	59·7	49·7	54·5	+ 1·6	88	0	5	2·70	+ 1·03	*	*	*	*
	Glasgow	62	45	59·4	49·5	54·2	+ 1·8	85	0	4	0·94	+ 0·07	25·0	+ 3·5	29	+ 4
	Glenlee Ş	63	33	61·0	46·6	53·3	+ 0·8	79	0	5	1·85	+ 0·72	*	*	*	*
	Douglas (Isle of Man)	61	42	59·6	50·0	54·6	+ 1·1	88	0	4	0·92	+ 0·06	29·7	- 2·8	35	- 3
7. ENGLAND, N.W.	Newton Reigny	64	31	60·4	44·4	52·0	- 0·7	70	0	5	0·60	?	28·5	?	33	?
	Stonyhurst	64	39	60·2	49·1	54·4	+ 0·7	87	0	5	0·45	- 0·69	24·5	- 3·5	28	- 4
	Blackpool Ṁ	65	40	63·0	48·4	55·4	+ 0·6	94	0	4	0·56	- 0·29	25·8	- 2·7	30	- 2
	Manchester (Prestwich)	67	41	61·8	49·6	55·4	+ 1·5	94	0	5	0·59	- 0·34	23·4	?	27	?
	Liverpool Obsy. (Bidston)	65	47	61·9	49·7	55·5	+ 0·2	95	0	4	0·44	- 0·30				
	Chester (Hawarden Bridge)	69	41	64·3	49·4	56·5	+ 0·4	102	0	4	0·24	?	*	*	*	*
	Llandudno Ṁ	67	47	62·7	51·4	56·8	+ 0·6	104	0	5	0·36	- 0·34	27·0	- 0·9	31	- 2
	Holyhead	63	49	69·9	51·4	60·2	+ 4·4	127	0	5	1·00	+ 0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	37	62·7	46·1	54·0	- 0·3	84	0	7	1·01	- 0·03	*	*	*	*
	Pembroke	62	50	60·7	52·9	56·6	+ 0·1	102	0	7	1·83	+ 1·05	36·8	+ 3·3	43	+ 4
	Clifton	65	48	62·9	52·9	57·7	+ 1·9	110	0	4	1·27	+ 0·48	*	*	*	*
	Bath	66	42	64·1	50·4	56·9	+ 0·4	104	0	5	1·42	?	18·4	?	21	?
	Arlington (N. Devon)	64	45	61·3	49·3	55·0	+ 0·4	91	0	4	0·60	- 0·55	*	*	*	*
	Cullompton Ṁ	67	44	64·3	48·6	56·1	0·0	99	0	5	1·53	+ 0·79	25·9	- 6·6	30	- 8
	Falmouth	64	50	63·0	53·3	57·9	+ 1·1	111	0	6	1·72	+ 0·74	36·4	0·0	42	0
	Plymouth	65	48	61·9	53·3	57·4	+ 0·5	108	0	3	2·07	+ 1·27	29·7	- 5·3	35	- 6
9. IRELAND, N.	Malin Head	61	49	59·1	51·4	55·1	+ 0·8	92	0	4	0·54	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	62	44	59·6	49·3	54·2	+ 2·2	85	0	6	1·44	+ 0·63	*	*	*	*
	Blacksod Point	60	44	58·7	50·3	54·3	- 0·8	86	0	7	2·10	?	*	*	*	*
	Markree Castle	63	36	60·6	47·4	53·7	+ 0·8	82	0	7	1·69	+ 0·79	28·5	+ 3·9	33	+ 4
	Armagh	63	44	60·2	48·7	54·2	+ 1·3	85	0	6	1·09	+ 0·44	22·5	- 4·2	26	- 5
	Donaghadee	61	44	59·7	51·1	55·2	+ 1·2	92	0	5	0·79	+ 0·14	*	*	*	*
10. IRELAND, S	Dublin	64	46	62·0	50·7	56·1	+ 0·9	99	0	6	1·56	+ 1·04	29·3	- 3·6	34	- 4
	Parsonstown	65	37	62·7	47·3	54·6	+ 0·8	88	0	6	1·60	+ 0·93	30·1	+ 0·6	35	+ 1
	Kilkenny	65	42	62·7	49·4	55·7	+ 1·3	96	0	6	2·31	+ 1·68	*	*	*	*
	Roches Point	63	48	61·1	52·1	56·4	+ 0·5	101	0	6	2·98	+ 2·13	*	*	*	*
	Valencia	63	41	60·9	50·1	55·2	- 0·7	92	0	6	3·14	+ 2·12	24·6	- 5·9	29	- 6
	Killarney	65	42	62·6	50·7	56·4	+ 1·4	101	0	6	2·11	+ 1·19	*	*	*	*
	Foynes	65	43	61·6	49·1	55·1	+ 0·3	92	0	6	1·33	+ 1·13	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	55	64·7	56·7	60·5	+ 2·3	130	0	7	1·38	+ 0·63	42·6	?	50	?
	Jersey	69	46	66·4	54·0	59·9	0·0	125	0	3	0·76	+ 0·03	30·9	-10·9	36	-13

Stations marked Ṁ are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

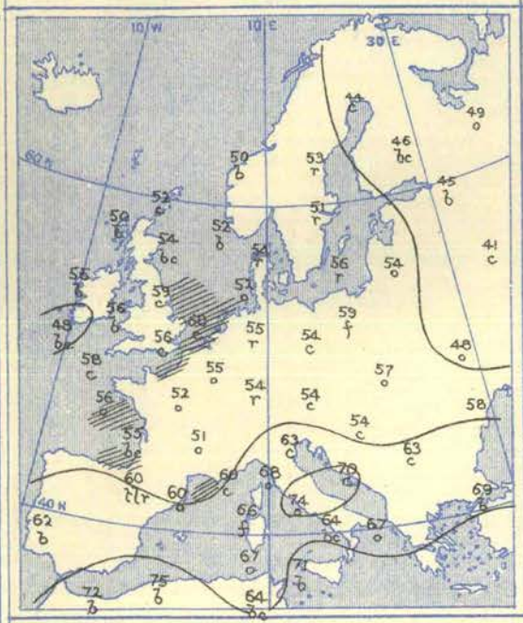
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

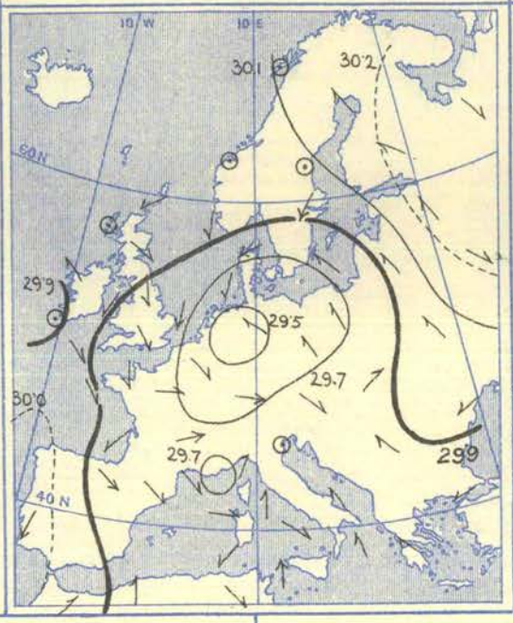
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 15th September.

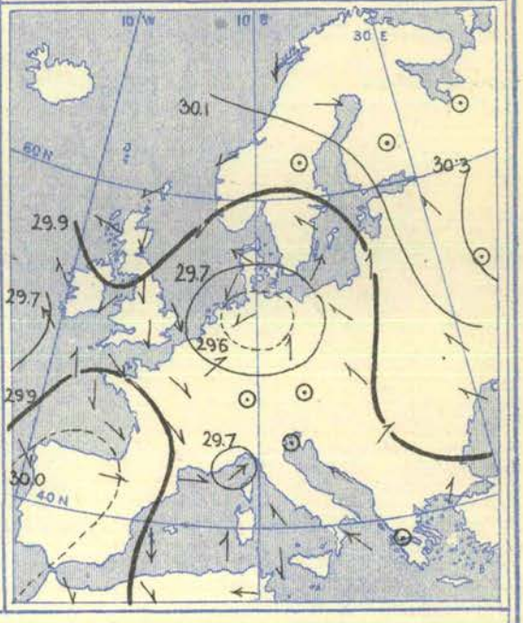
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of the United Kingdom, and also in Norway and many parts of southern Europe. Cloudy or dull elsewhere, with rain over Denmark, Sweden, Holland and western and northern Germany, and a thunderstorm at Biarritz. Rain falling later in the south-western parts of the United Kingdom, as well as at many of the Continental stations—heavily in the south of Ireland and also over northern Italy; thunderstorm occurring at Nice.

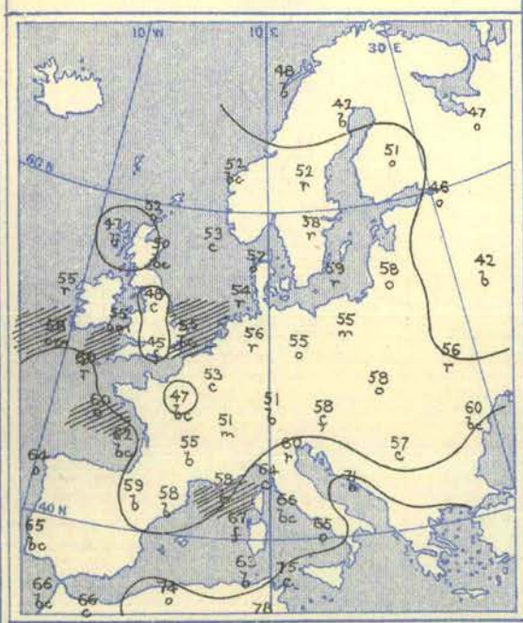
Temperature fallen in most of the western countries, but risen elsewhere. Morning readings highest, 77° at Athens and Patras, 75° at Algiers and 74° at Rome; above 65° at most of the Mediterranean and Adriatic stations. Lowest, (1) 41° at Moscow, 44° at Haparanda and 45° at St. Petersburg; (2) 45° at Parsonstown and 49° at Nairn and Newton Reigny. Rising during day to between 60° and 65° in most parts of the United Kingdom, exceeding 70° over southern Europe, and reaching 81° at Brindisi and 85° at Palermo.

Wind Northerly over the greater part of the United Kingdom, and fresh or strong in force on our east coasts; North-Westerly in France; Westerly or South-Westerly over Italy and south Germany; South-Easterly over the Baltic and the Gulf of Finland; strong from the Eastward or North-Eastward in Denmark and the south of Scandinavia; calm in the northern parts of Scandinavia. Southerly or South-Easterly winds setting in later on our own western and extreme northern coasts, and freshening in the south of Ireland.

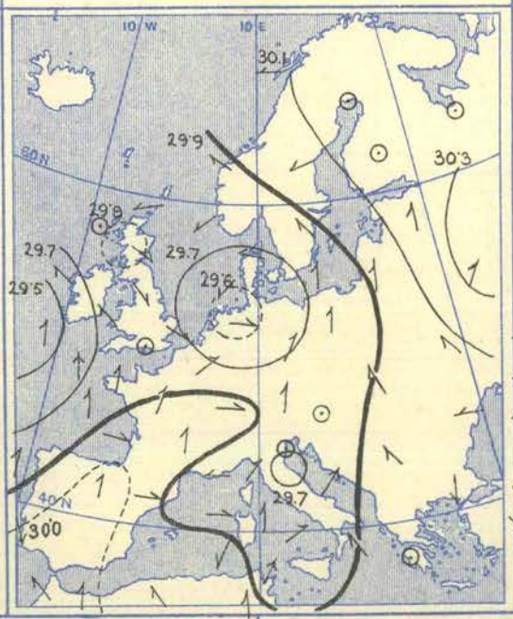
Barometer highest, 30·2 ins. and upwards in an anticyclone over Russia; 30·0 ins. and upwards in another system spreading over Portugal from the Atlantic. Lowest, 29·5 ins. and less in a well-marked depression with its centre over north-western Germany; gradients rather steep over the southern parts of the North Sea. Depression beginning to disperse later, but new disturbance approaching the west of Ireland from the south-westward, and barometer falling briskly on our extreme western coasts.

Monday, 16th September.

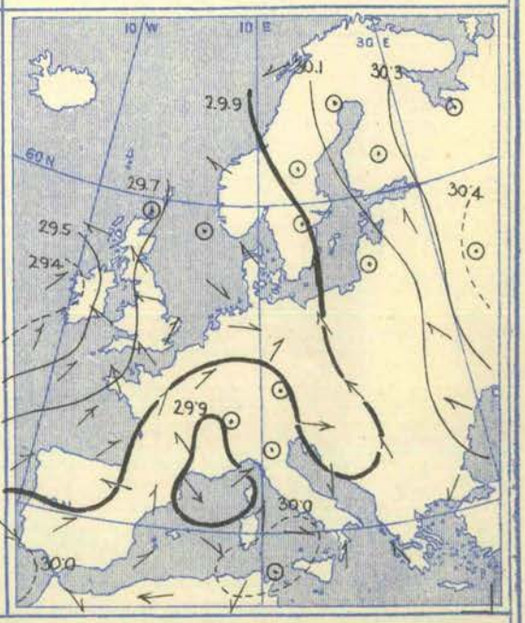
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in all the more northern and eastern parts of the United Kingdom, but rainy in the western and south-western districts. Fine in France and Spain, and also in Norway; cloudy or dull in most of the other Continental countries, with rain in Denmark, north Germany, and the south of Sweden, as well as at Trieste. Rain falling later over Ireland, England, and the western, northern, and central parts of the Continent generally; amount considerable in the west and south of our Islands, and still larger at some of the Austrian stations.

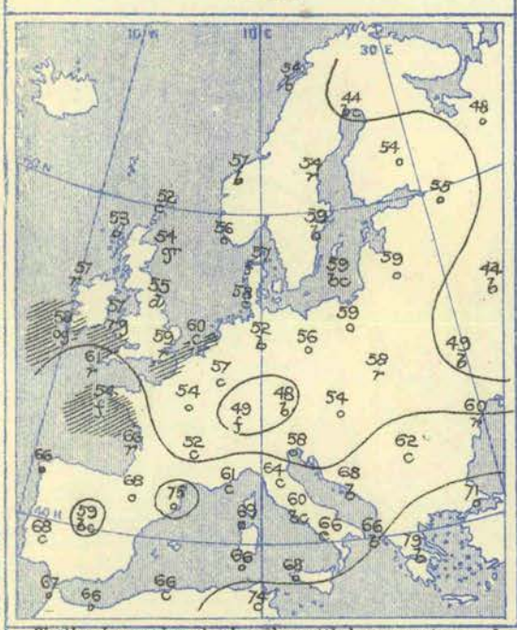
Temperature fallen over Great Britain, and also in Austria, but risen in most other countries. Morning readings highest, 75° at Palermo and Athens, 74° at Algiers, and 72° at Constantinople; above 65° at most of the Mediterranean and Adriatic stations. Lowest, (1) 42° at Haparanda and Moscow, and 44° at Kharkov; (2) 43° at Loughborough, 44° at Newton Reigny (Penrith) and 45° at Nairn and London. Rising during day to between 60° and 65° in many parts of the United Kingdom, and to 67° at Loughborough; exceeding 75° over southern Europe, the highest reading reported being 85° at Palermo.

Wind light to fresh from the Southward or South-Westward in the west of France, and from the South-Eastward in the western parts of the United Kingdom. Light to moderate from the Southward or South-Eastward in Russia; from the Eastward or North-Eastward in Scandinavia and Denmark, and from the North-Westward on the east coasts of Great Britain. Southerly or South-Westerly in Germany and Italy; calm or variable in Austria. Subsequently veering to the South-Westward in the south-west of our Islands, but shifting to the South-Eastward on all our more northern and eastern coasts.

Barometer highest, 30·3 ins. and upwards in an anticyclone over central Russia, 30·0 ins. and upwards in another system over Spain. Lowest, 29·5 ins. and less in a depression lying off the south-west of Ireland; 29·6 ins. and less in a shallow disturbance, with its centre over Holstein. Former depression subsequently spreading north-eastward over the United Kingdom; Danish disturbance partially filling up.

Tuesday, 17th September.

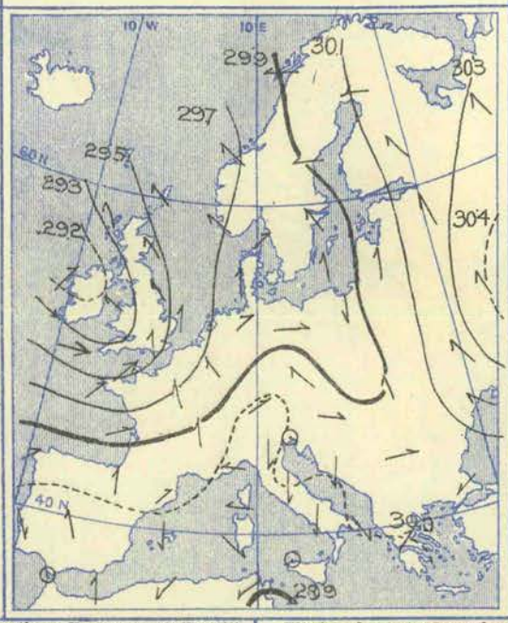
Temperature and Weather. 8 a.m.

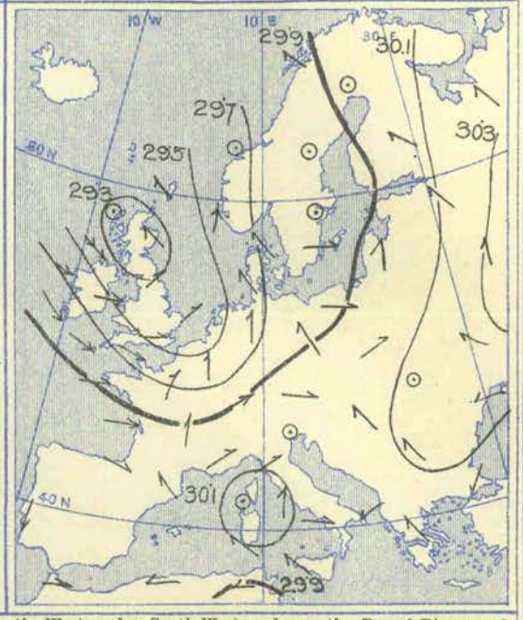


Weather in morning cloudy and unsettled over western and northern Europe generally, with rain in many parts of the United Kingdom as well as in the north and west of France; rain falling also at Hernösand and Karlstadt. Fine in most of the central and southern countries, but rainy in the eastern parts of Germany and Austria. Rain falling later over all but the southern parts of Europe—heavily in places (as much as 1·3 ins. at Neufahrwasser and 1·1 ins. at Sumburgh Head).

Temperature risen in most countries, but fallen over Italy, Austria and south Germany. Morning readings highest, 79° at Patras and Sfax, 78° at Athens and 75° at Barcelona; above 65° at most of the Mediterranean and Adriatic stations and above 60° in the west of France and on our own extreme south-west coasts. Lowest, 44° at Haparanda and Moscow, 45° at Kharkov and 48° at Archangel and Uleaborg; lowest in our Islands, 52° at Sumburgh Head and Nairn. Rising during day to between 60° and 65° in most parts of the United Kingdom and to 66° in London and at Jersey; exceeding 70° over the west of France and the greater part of southern Europe, the highest reading reported being 86° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.



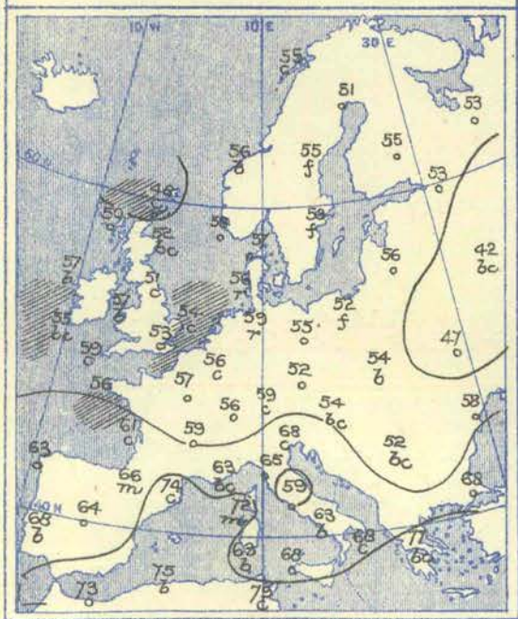


Wind moderate to strong from the Westward or South-Westward over the Bay of Biscay and our south-west coasts, but light to moderate from the Southward or South-Eastward in most other parts of western and northern Europe. Variable in Germany and Austria and also over the Spanish Peninsula; light from the Northward or North-Westward over Italy and the Adriatic. Subsequently veering to the Westward or North-Westward over the whole of the United Kingdom and blowing with the force of a moderate to fresh gale in most places.

Barometer highest, 30·4 ins. and upwards in an anticyclone over central Russia; 30·0 ins. in another system over the Mediterranean, Spain, Italy and Switzerland. Lowest, 29·2 ins. and less in a well-marked depression with its centre off the north-west of Ireland; shallow secondary disturbance reported over the St. George's and Bristol Channels. Both depressions moving north-eastwards later, the primary system tending to disperse but the secondary becoming more clearly defined.

Wednesday, 18th September.

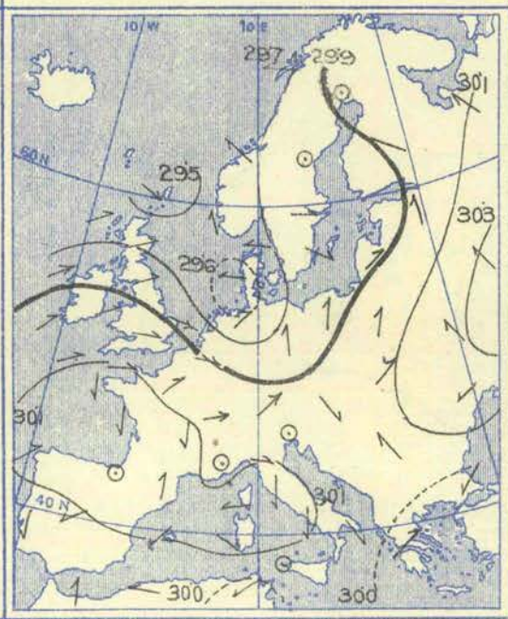
Temperature and Weather. 8 a.m.

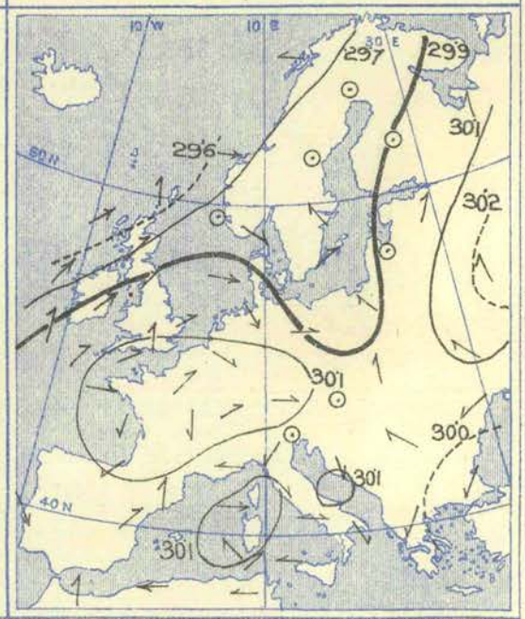


Weather in morning fine over the greater part of the United Kingdom and also in Austria, Italy and the south of France. Cloudy or dull elsewhere, with fog in Sweden and rain in Denmark, north Germany and the Gulf of Finland, as well as at Turin and Florence. Rain falling later in the west and north of our Islands generally and also in Norway, Denmark and Germany; amounts large in the western parts of Ireland and Scotland.

Temperature fallen in our Islands and the north and west of France, as well as in Russia, Austria and eastern Germany; risen in most other localities. Morning readings highest, 79° at Sfax, 77° at Palma and Athens and 76° at Patras; above 65° in many parts of southern Europe. Lowest, (1) 42° at Moscow, 46° at Kharkov and 47° at Kiev; (2) 47° at Donaghadee, 48° at Sumburgh Head and 49° at Wick. Rising during day to between 60° and 65° in most parts of the United Kingdom and to 66° in London and at Loughborough; exceeding 70° over southern Europe generally and reaching 82° at Cette and 85° at Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.



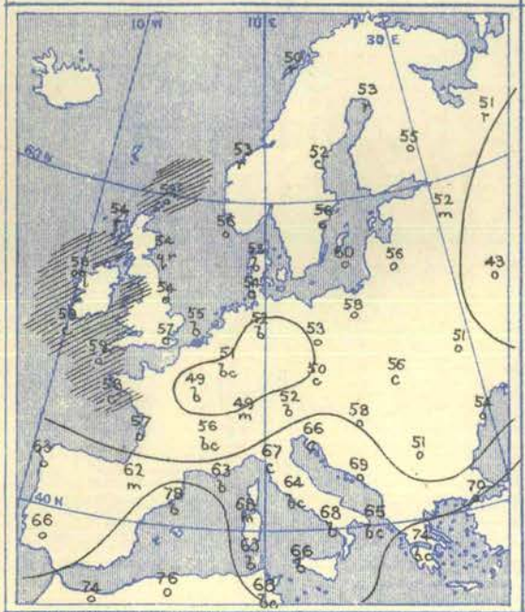


Wind light to fresh from the Westward over Great Britain and the neighbouring parts of the Continent; South-Westerly or Southerly in Germany; South-Easterly in Russia and Norway; Easterly in Denmark; calm in the Gulf of Bothnia. South-Westerly in Ireland and west of Scotland, and fresh in force on our extreme north-west coasts. North-Westerly or Northerly at many of the French and Italian stations, variable over the Spanish Peninsula. Subsequently backing to the South-Westward over the whole of our Islands and increasing to a moderate gale in the north of Ireland; shifting to Westward in Denmark and Germany.

Barometer highest, 30·3 ins. and upwards in an anticyclone over central Russia; 30·1 ins. and upwards in another system over the Bay of Biscay, France and the northern parts of Spain and Italy. Lowest, 29·5 ins. and less in a depression with its centre a little to the north-eastward of the Shetlands; 29·6 ins. and less in a secondary disturbance over Denmark. Depression subsequently moving away to the northward; secondary system passing on to the Baltic and partially filling up. New disturbance approaching our own extreme north-west coasts in evening.

Thursday, 19th September.

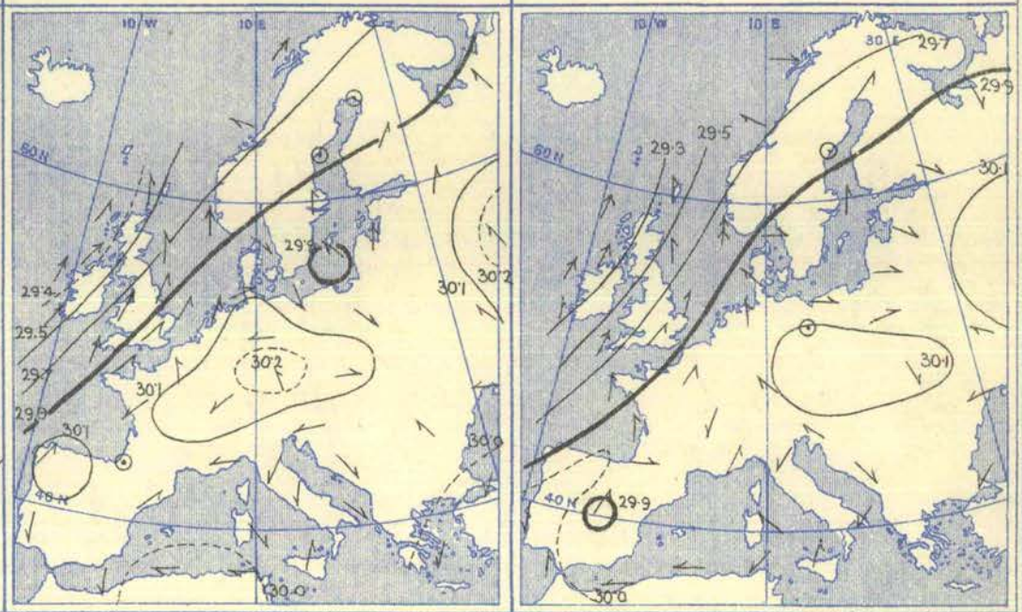
Temperature and Weather. 8 a.m.



Weather in morning dull in all the more western and northern parts of the United Kingdom with rain in several places. Fine on the east and south-east coasts of England as well as in the Netherlands, Germany, central Norway and Italy; dull in most other parts of the Continent with rain in the west of France and the extreme north of Russia. Rain falling later in the west and north of our Islands generally—heavily in the south of Ireland; considerable quantities falling also over central Italy. Thunderstorms occurring in the extreme south of France and at Nemours.

Temperature risen in our Islands but fallen at most of the Continental stations. Morning readings highest, 78° at Barcelona, 76° at Algiers and 74° at Athens and Oran; above 65° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest, (1) 43° at Moscow and 49° at Kharkov; (2) 50° at Bodo; (3) 51° at Newton Reigny (Penrith) and Liverpool; below 55° at many of our own northern and central stations. Rising during day to between 60° and 65° over nearly the whole of the United Kingdom; exceeding 75° in many parts of southern Europe and reaching 90° at Corunna and 91° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.

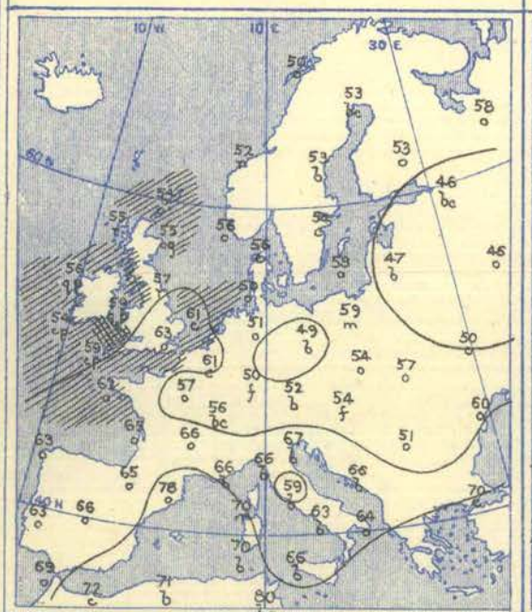


Wind Southerly or South-Westerly over our Islands and the neighbouring parts of the Continent and strong to a gale in force on our western coasts. Light to moderate from the Westward in Denmark and Germany; Southerly in Russia; calm in the Gulf of Bothnia, variable over southern Europe generally. Subsequently blowing with the force of a slight gale from the Southward or South-Westward on many parts of our own coasts and also in the south of Norway; no material change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards to 30·1 ins. in two anticyclones,—one lying over central Russia and the other over Germany and central France. Lowest, 29·4 ins. and less in a large and rather deep depression with its centre off our extreme north-west coasts; 29·9 ins. and less in a shallow disturbance over the Baltic. Depression in north-west subsequently moving northwards, but new and deeper disturbance appearing off the Irish coasts at night.

Friday, 20th September.

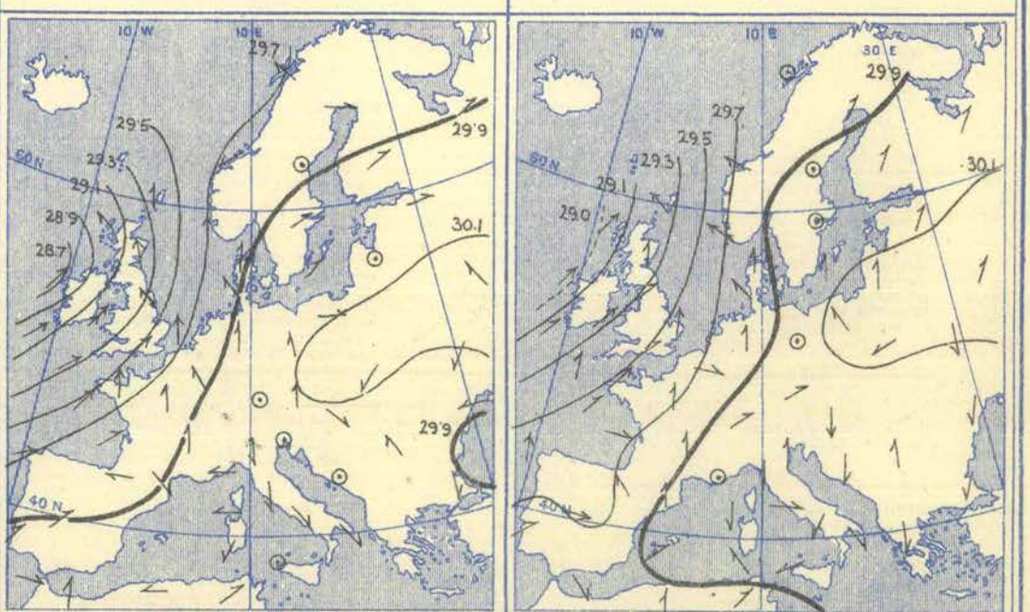
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over western and northern Europe generally, with rain or passing showers at several of our own western and northern stations; rain falling also at Christiansund. Fine over Italy and also over the Gulf of Bothnia; foggy in many parts of Germany as well as over the Gulf of Finland. Rain falling later over western Europe generally, very heavily in the south of France and the north of Spain; amounts as large as 3·6 ins. at Corunna, 2·2 ins. at Perpignan, 2·1 ins. at Limoges and Biarritz and 2·0 ins. at Ushant. Thunderstorms occurring in the south of France and in Algeria.

Temperature risen in most of the western and northern countries, but fallen in the east and south. Morning readings highest, 78° at Barcelona and La Calle, 77° at Algiers and 72° at Nemours and Oran; above 65° at most of the Mediterranean, Adriatic and southern French stations and above 60° in the west and north of France and the south of England. Lowest, 46° at St. Petersburg, Moscow, Breslau and Prague and 47° at Riga; Rising during day to 65° and upwards in many parts of the United Kingdom and to 69° at Jersey; exceeding 70° over central and southern Europe generally.

Barometer and Wind. 8 a.m. and 6 p.m.

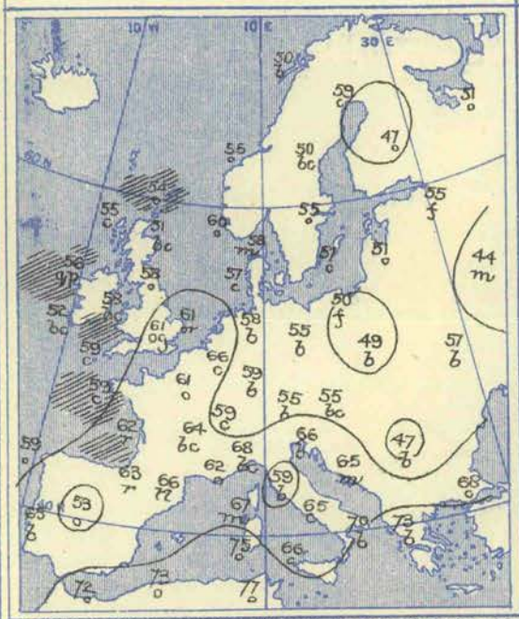


Wind strong from the South-Westward in the western parts of our Islands and France, with a gale in the Irish Sea: Southerly or South-Easterly in most other parts of western Europe and strong in force on the east coasts of England. Light from the South-Westward over Sweden and northern Russia; calm or variable in Austria; Northerly or North-Westerly in Italy. Wind moderating gradually later on our western coasts; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·0 ins. in an anticyclone lying over Russia, eastern Germany, Austria, Italy and the south-east of France. Lowest, 28·7 ins. and less in a deep depression with its centre off the west of Ireland; gradients steep over western Europe generally. Depression subsequently travelling away in a north-westerly direction over the Atlantic and barometer rising over the whole of the United Kingdom.

Saturday, 21st September.

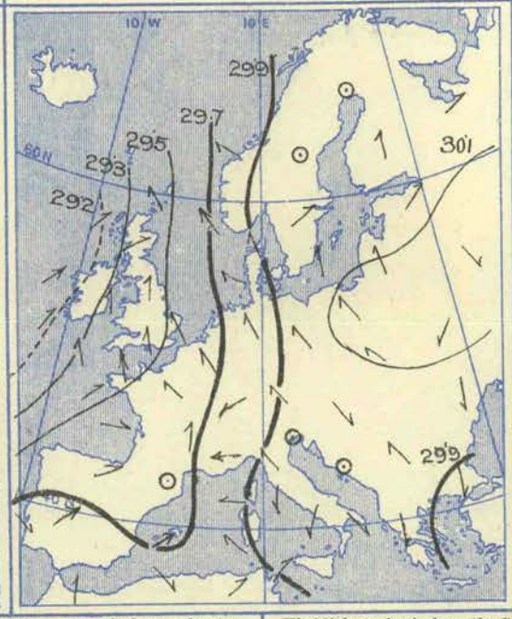
Temperature and Weather. 8 a.m.

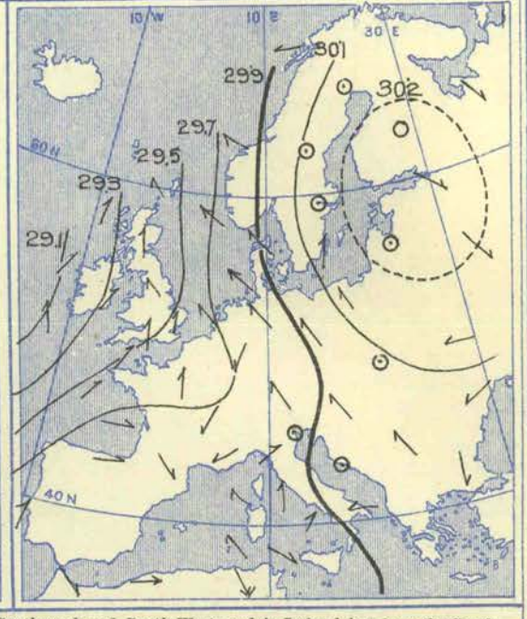


Weather in morning dull over England, France and Spain, with rain in several places; fine in many parts of Ireland and Scotland. Fine over the greater part of eastern and central Europe and also in Italy, but dull at many of the Scandinavian and northern Russian stations. Rain falling later in several parts of the United Kingdom,—heavily in the south-east of Ireland. Still heavier falls occurring in the south of France and at some of the Italian stations,—as much as 2·5 ins. at Nice, 2·1 ins. at Gap, and 1·7 ins. at Rome; thunderstorms occurring in the south of France and at La Calle.

Temperature fallen in our Islands and France and also in Sweden, eastern Germany and Austria. Morning readings highest, 81° at Sfax, 77° at Tunis, and 75° at Palma and Cagliari; above 65° at most of the Mediterranean and Adriatic stations, and above 60° over France, the Netherlands and the south-east of England. Lowest, 44° at Moscow, and 47° at Kuopio, Prague and Hermanstadt; lowest in our Islands 51° at Nairn and Aberdeen. Rising during day to 65° and upwards at several of our own southern stations; exceeding 70° in France and exceeding 75° in many parts of central and southern Europe.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind light to fresh from the Southward and South-Westward in Ireland but from the South-Eastward in most other parts of western, northern and central Europe. Westerly or South-Westerly over the Spanish Peninsula and the south-west of France—but Easterly in the south of France and Northerly in Italy. No important change occurring during day.

Barometer highest 30·1 ins. and upwards to 30·0 ins. in a large anticyclone lying over Russia, the Baltic and the south of Sweden. Lowest, 29·2 ins. and less in a large depression lying to the westward of our Islands. Anticyclone subsequently increasing in size and intensity and spreading in a north-westerly direction, but new depression approaching the south-west of Ireland at night.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶⟶ = a fresh to strong breeze: ⟶⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week two anticyclones were in existence—the larger and more important system being situated over Russia, while the smaller area lay over and to the westward of Portugal. Over England and all the more central parts of the Continent the weather was influenced to a greater or less extent by a well-defined and rather deep depression, the centre of which lay over north-western Germany, a complete cyclonic circulation being reported (with very strong North-Easterly winds over the North Sea), and rain in many parts of Denmark, Germany and the Netherlands.

On the 15th and 16th the depression moved slowly northwards and dispersed, but for the remainder of the week the weather in all the north-western countries was influenced by a new series of cyclonic disturbances which advanced from the Atlantic. The first of these moved north-eastwards across Scotland on the 17th, and was accompanied by a secondary system which passed over England, and which developed considerably in intensity during its passage, the wind in the rear of both disturbances increasing to a gale from the Westward or North-Westward on all our western and southern coasts. The second disturbance moved in a north-north-easterly direction outside the Irish and Scotch coasts between the 18th and 19th, and occasioned very strong winds or slight gales from the Southward or South-Westward in many places. The third depression (a very deep system, with minimum readings below 28·7 ins.) advanced to the north-west of Ireland early on the 20th, but afterwards moved away in a north-westerly direction over the Atlantic. In this case a gale from the Southward or South-Westward was again experienced at our western and some of our northern stations. The progress of each disturbance was attended by general falls of rain, and in the south-west of our Islands the aggregate amount for the week was very large. In the south of France also, and some of the neighbouring parts of Spain and Italy, thunderstorms and exceedingly heavy rains were experienced during the latter part of the week, the unsettled weather in those regions being due apparently to shallow depressions which formed over the Mediterranean.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	13·3	−10·9	15	−12	BRIGHTON	18·0	−19·8	21	−23
STRATHPEFFER SPA					WORTHING	22·4	?	26	?
EDINBURGH	26·1	+ 3·5	30	+ 3	BOGNOR	22·2*	?	26*	?
MORPETH	24·8	?	29	?	WATERGATE (Emsworth)	18·6	?	22	?
NEWCASTLE-ON-TYNE	23·2	?	27	?	WESTBOURNE (Emsworth)	25·3*	−11·7	29*	−14
OSWALDKIRK (Yorkshire)	24·7	− 1·8	29	− 2	VENTNOR HOSPITAL	25·5	−14·0	30	−16
YORK	22·6	− 4·2	26	− 5	BOURNEMOUTH	29·7	?	35	?
LOWESTOFT	26·6	?	31	?	SOUTHPORT	24·2	?	28	?
HOLLESLEY BAY	26·9	?	31	?	RHYL	31·2*	?	36*	?
SHEFFIELD	15·9	?	18	?	COLWYN BAY		?		?
WORKSOP	24·0	− 2·5	28	− 3	ABERDOVEY	37·0*	?	43*	?
THURCASTON (Leicestershire)	20·3	− 8·1	24	− 9	TENBY	29·4	− 5·2	34	− 6
MARGATE					NEWQUAY	34·0	− 0·8	40	− 1
BROADSTAIRS	22·0	?	26	?	TORQUAY	34·7	− 1·5	40	− 2
EASTBOURNE	19·1	−19·3	22	−23	CAHIR (Duneske)	29·5*	?	34*	?
					GUERNSEY	33·9*	− 6·1	39*	− 7

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 39.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 28TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 230.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	46	62·8	51·4	56·9	7 above	104	+50	0	− 4	2081	+338	561	−10
	1. SCOTLAND, EAST	71	42	64·3	50·3	57·0	7 above	105	+45	0	− 5	2231	+159	657	+37
	2. ENGLAND, N.E.	71	43	65·5	52·6	58·8	6 above	118	+48	0	− 2	2493	+233	516	+ 6
	3. ENGLAND, EAST	73	42	66·4	52·9	59·3	5 above	121	+41	0	− 2	2724	+104	560	+ 5
	4. MIDLAND COUNTIES	79	40	66·7	50·3	58·1	5 above	113	+41	0	− 3	2720	+140	591	+28
	5. ENGLAND, SOUTH	71	44	65·9	54·1	59·8	4 above	125	+35	0	− 1	2855	+ 9	445	+35
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	46	62·8	52·5	57·4	6 above	108	+42	0	− 2	2367	+166	470	+33
	7. ENGLAND, N.W.	72	43	65·8	52·9	59·0	6 above	119	+44	0	− 2	2578	+166	453	+41
	8. ENGLAND, S.W.	70	42	64·4	52·8	58·3	4 above	114	+31	0	− 1	2802	+159	369	+50
	9. IRELAND, NORTH	67	44	61·1	52·1	56·4	4 above	101	+34	0	− 2	2332	+ 6	374	+ 8
	10. IRELAND, SOUTH	68	40	62·2	53·3	57·6	4 above	109	+33	0	− 1	2673	+ 37	325	+61
	—CHANNEL ISLANDS	69	47	65·2	55·7	60·2	2 above	127	+24	0	0	3163	+122	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 230.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	15	3 more	166	0	28·8	− 5·5	25	+ 3	30	+ 3	1115	+137	30	+ 3
	1. SCOTLAND, EAST	5	5	2 less	143	+ 1	19·8	− 2·8	23	− 1	27	− 2	1271	+150	35	+ 4
	2. ENGLAND, N.E.	2	less than ½	5 less	122	−10	15·3	− 2·9	28	+ 2	34	+ 2	1346	+215	37	+ 6
	3. ENGLAND, EAST	1	1	5 less	114	−18	13·3	− 4·7	28	− 7	33	− 8	1551	+144	41	+ 4
	4. MIDLAND COUNTIES	1	1	6 less	114	−13	18·8	− 1·3	28	+ 1	33	+ 2	1312	+143	38	+ 4
	5. ENGLAND, SOUTH	2	2	5 less	106	−17	17·8	− 1·9	33	− 3	40	− 5	1592	+165	44	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	20	9 more	146	− 9	32·4	− 3·8	21	− 4	24	− 7	1361	+186	38	+ 6
	7. ENGLAND, N.W.	3	2	7 less	132	− 7	18·2	− 6·2	32	+ 6	38	+ 8	1481	+259	40	+ 7
	8. ENGLAND, S.W.	4	8	1 less	123	−20	24·8	− 3·4	29	− 5	34	− 6	1505	+ 73	42	+ 2
	9. IRELAND, NORTH	6	15	7 more	164	− 2	25·7	− 0·1	3	−21	4	−26	1148	+ 69	32	+ 2
	10. IRELAND, SOUTH	6	13	6 more	136	−14	26·0	− 2·8	9	−18	11	−22	1266	+ 39	35	+ 1
	— CHANNEL ISLANDS	4	7	1 less	139	− 3	20·9	− 1·0	35	+ 1	43	+ 1	1654	+ 20	47	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was again unsettled and rainy in Ireland and Scotland, but over the greater part of England it was mostly fine and bright.

Temperature continued above the mean, the excess in all districts except the Channel Islands being large. Over Ireland and the south of England it was 4°, while over the northern parts of England it was as much as 6° and in the north and east of Scotland 7°. The highest of the maxima were registered as a rule, on the 22nd, and ranged from 79° in the Midland Counties and from 73° or 71° in most other districts to 67° in Ireland N. and 66° in Scotland W. The lowest of the minima were recorded about the middle or latter end of the week; they ranged from 40° in the Midland Counties and Ireland S. to 46° in Scotland N. and W., and to 47° in the Channel Islands.

Rainfall was much more than the mean in Ireland and the west of Scotland and rather more in Scotland N. In all other districts there was a deficit; the fall over northern, central, southern and eastern England was extremely slight.

Bright Sunshine was again less than the mean in most parts of the Kingdom—especially in Ireland—but slightly exceeded it in a few isolated localities. The percentage of the possible duration ranged from 43 in the Channel Islands, 40 in England S., and 38 in England N.W., to 24 in Scotland W. and to only 11 and 4 respectively in the Irish districts.

Barometer and Wind.—Depressions from the Atlantic were rather numerous on our south-western and western coasts, but they were not of great intensity, and after spreading somewhat eastwards over the country, and causing strong Southerly winds and occasionally slight gales in the extreme west, they moved away northwards and dispersed. Pressure was highest over Sweden during the earlier half of the period, but later on it became almost equally high in an anticyclone over the Bay of Biscay and France, and by the end of the week this latter had extended to Germany and increased in height, thus becoming the dominant high-pressure system over western Europe.

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Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	50	56·1	51·6	53·7	+ 4·6	82	0	6	1·13	+ 0·26	*	*	*	*
	Stornoway	68	48	65·1	51·4	57·9	+ 8·4	111	0	6	1·02	− 0·02	29·1	+ 5·5	35	+ 7
	Wick	63	49	60·6	52·3	56·3	+ 6·3	100	0	5	0·36	− 0·30	*	*	*	*
	Lairg Ⓢ	71	46	67·2	49·2	57·8	+ 9·3	111	0	4	0·74	− 0·03	*	*	*	*
	Glencarron Ⓢ	68	47	63·6	51·3	57·2	+ 8·0	106	0	3	1·97	+ 0·10	*	*	*	*
	Fort Augustus Ⓢ	69	46	64·5	51·7	57·8	+ 7·1	111	0	5	1·25	+ 0·30	25·7	+ 8·7	31	+10
	Fort William Ⓢ	66	49	62·7	52·4	57·3	+ 5·8	107	0	4	3·68	+ 1·96	16·0	− 4·8	19	−6
1. SCOTLAND, E.	Nairn	71	47	67·4	49·0	57·8	+ 7·0	111	0	6	0·97	+ 0·39	*	*	*	*
	Aberdeen	67	46	61·1	51·7	56·2	+ 5·1	99	0	6	0·29	− 0·39	12·3	−14·5	15	−17
	Braemar Ⓢ	64	42	61·4	48·4	54·6	+ 7·0	88	0	5	0·35	− 0·45	*	*	*	*
	Ochtertyre Ⓢ	69	44	64·9	52·3	58·3	+ 7·6	114	0	7	1·02	+ 0·18	*	*	*	*
	Leith	71	46	66·7	52·3	59·2	+ 6·5	120	0	3	0·32	− 0·17	*	*	*	*
	Marchmont Ⓢ	69	44	64·4	48·1	55·9	+ 5·7	97	0	3	0·21	− 0·52	35·5	+11·5	43	+13
2. ENGLAND, N.E.	Alnwick Castle	69	43	65·6	51·2	58·1	+ 6·6	113	0	2	0·04	− 0·62	*	*	*	*
	Durham	68	45	64·8	52·3	58·3	+ 6·5	114	0	3	0·09	− 0·48	34·4	+ 9·4	41	+11
	Shields	71	50	65·7	52·7	59·0	+ 6·6	119	0	3	0·03	− 0·50	*	*	*	*
	Scarborough Ⓜ	68	48	65·0	51·8	58·1	+ 5·1	113	0	2	0·03	− 0·58	23·9	?	29	?
	Spurn Head	70	52	64·6	55·1	59·6	+ 5·4	123	0	0	—	− 0·45	*	*	*	*
	Fulbeck (Lincolnshire)	71	48	67·1	52·5	59·5	+ 6·3	123	0	1	0·01	− 0·49	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	73	43	69·6	51·7	60·2	+ 6·6	127	0	2	0·08	− 0·53	24·0	− 4·6	29	− 5
	Yarmouth	66	50	63·7	55·6	59·3	+ 4·7	121	0	2	0·11	− 0·52	*	*	*	*
	Geldeston	69	42	67·0	53·2	59·8	+ 5·4	125	0	2	0·08	− 0·49	25·6	− 7·4	31	− 9
	Cambridge	72	42	68·9	51·1	59·6	+ 5·2	123	0	0	—	− 0·50	24·5	− 6·6	30	− 8
	Felixstowe	65	47	63·9	55·7	59·6	+ 5·5	123	0	1	0·10	?	39·2†	?†	47†	?†
	Rothamsted	69	40	65·4	50·0	57·4	+ 4·4	108	0	1	0·02	− 0·61	21·1	− 9·4	25	−12
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	45	67·7	48·3	57·5	+ 4·5	109	0	1	0·02	− 0·52	*	*	*	*
	Loughborough	71	46	68·3	50·0	58·7	+ 5·1	117	0	0	—	− 0·58	*	*	*	*
	Colly Weston (Stamford)	79	46	71·0	50·9	60·5	+ 6·9	130	0	1	0·02	?	*	*	*	*
	Cheadle Ⓜ	68	40	64·9	49·8	57·0	+ 5·4	105	0	1	0·02	− 0·71	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	70	48	65·8	52·0	58·6	+ 5·5	116	0	1	0·03	− 0·57	26·0	?	31	?
	Churchstoke Ⓜ	67	45	65·5	50·1	57·4	+ 5·8	108	0	2	0·09	− 0·58	33·3	+ 4·3	40	+ 5
	Hereford (Belmont) Ⓜ	67	46	66·1	51·5	58·5	+ 5·2	116	0	3	0·17	− 0·45	*	*	*	*
	Cirencester	68	44	64·3	48·4	56·0	+ 3·4	98	0	3	0·12	− 0·56	39·6	+10·6	48	+13
	Oxford	70	47	66·7	52·0	59·0	+ 5·0	119	0	0	—	− 0·60	33·0	+ 2·5	40	+ 3
5. ENGLAND, S.	London	70	44	68·0	51·7	59·5	+ 3·9	123	0	0	—	− 0·55	19·4†	− 6·6†	23†	− 8†
	Swarraton (Alresford) Ⓜ												*	*	*	*
	Dungeness	67	44	66·0	54·6	60·0	+ 3·7	126	0	0	—	− 0·64	26·3	?	32	?
	Hastings (St. Leonards)	66	49	65·2	55·0	59·9	+ 3·8	125	0	1	0·02	− 0·68	19·2	−16·8	23	−20
	Southampton	71	45	68·4	54·3	61·0	+ 5·3	133	0	1	0·11	− 0·59	42·2	+ 9·2	51	+11
	Portland Bill	65	54	64·3	56·7	60·3	+ 4·5	128	0	3	0·44	?	*	*	*	*
	Shaftesbury Ⓜ	66	47	63·7	52·4	57·8	+ 4·6	111	0	4	0·34	− 0·46	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	47	63·7	54·5	58·9	+ 7·3	118	0	6	3·34	+ 1·67	*	*	*	*
	Glasgow	66	50	63·8	52·3	57·8	+ 6·9	111	0	6	0·97	+ 0·10	20·4	0·0	22	0
	Glenlee Ⓢ	66	48	63·0	51·6	57·0	+ 5·9	105	0	6	2·22	+ 1·05	*	*	*	*
	Douglas (Isle of Man)	63	46	60·7	51·6	55·9	+ 3·6	97	0	4	1·46	+ 0·56	20·6	− 9·4	25	−12
7. ENGLAND, N.W.	Newton Reigny	68	43	65·1	49·9	57·1	+ 5·8	106	0	4	0·26	?	38·5	?	46	?
	Stonyhurst	66	47	63·8	53·1	58·2	+ 6·1	113	0	2	0·08	− 1·07	29·4	+ 3·4	35	+ 4
	Blackpool Ⓜ	70	49	66·7	53·8	59·9	+ 6·7	125	0	2	0·07	− 0·81	33·3	+ 7·3	40	+ 9
	Manchester (Prestwich)	72	48	67·5	52·6	59·7	+ 7·3	124	0	1	0·09	− 0·84	30·3	?	36	?
	Liverpool Obsy. (Bidston)	68	50	66·0	53·7	59·6	+ 5·8	123	0	4	0·18	− 0·57	33·7	?	41	?
	Chester (Hawarden Bridge)	72	45	68·3	51·7	59·6	+ 5·3	123	0	3	0·10	?	*	*	*	*
	Llandudno Ⓜ	69	51	67·1	54·8	60·7	+ 5·9	131	0	3	0·12	− 0·63	33·7	+ 7·7	41	+10
	Holyhead	64	51	61·6	53·6	57·4	+ 2·6	108	0	5	0·85	+ 0·06	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	42	66·0	51·0	58·1	+ 5·5	113	0	7	0·61	− 0·49	*	*	*	*
	Pembroke	62	52	61·0	56·0	58·4	+ 3·1	115	0	5	2·17	+ 1·37	20·9	−10·1	25	−13
	Clifton	68	49	66·0	53·8	59·6	+ 5·2	123	0	1	0·08	− 0·72	*	*	*	*
	Bath	68	44	66·6	50·1	58·0	+ 3·4	112	0	3	0·32	?	37·8	?	46	?
	Arlington (N. Devon)	66	46	63·6	51·6	57·3	+ 3·9	107	0	5	0·50	− 0·70	*	*	*	*
	Cullompton Ⓜ	68	44	65·2	51·8	58·2	+ 4·0	113	0	3	0·75	− 0·03	26·6	− 3·4	32	− 4
	Falmouth	64	52	62·3	54·0	58·0	+ 2·4	112	0	6	1·09	+ 0·07	29·3	− 4·7	35	− 6
	Plymouth	66	51	64·4	53·8	58·7	+ 3·3	117	0	2	0·92	+ 0·11	32·6	+ 0·1	39	0
9. IRELAND, N.	Malin Head	62	50	59·6	52·9	56·1	+ 3·1	99	0	6	1·07	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	63	45	60·7	51·3	55·8	+ 5·2	97	0	7	1·94	+ 1·12	*	*	*	*
	Blacksod Point	63	49	60·3	51·6	55·8	+ 1·8	97	0	7	1·73	?	*	*	*	*
	Markree Castle	64	44	61·4	51·7	56·3	+ 4·7	100	0	7	2·05	+ 1·15	2·1	−21·4	3	−26
	Armagh	67	47	62·4	53·7	57·8	+ 6·2	111	0	6	1·02	+ 0·37	3·1	−22·2	4	−27
	Donaghadee	67	45	62·3	51·6	56·7	+ 3·9	103	0	5	0·90	+ 0·24	*	*	*	*
10. IRELAND, S	Dublin	68	50	63·8	54·2	58·8	+ 5·0	118	0	3	1·07	+ 0·52	17·3	−13·7	21	−16
	Parsonstown	66	45	62·1	52·7	57·2	+ 4·8	106	0	6	1·28	+ 0·61	4·2	−23·8	5	−29
	Kilkenny	65	40	61·4	50·4	55·6	+ 2·7	95	0	5	1·15	+ 0·51	*	*	*	*
	Roches Point	61	48	60·6	54·6	57·5	+ 2·7	109	0	7	2·19	+ 1·32	*	*	*	*
	Valencia	67	52	62·4	53·9	58·0	+ 3·0	112	0	6	1·21	+ 0·13	11·8	−17·2	14	−21
	Killarney	67	48	62·9	54·3	58·4	+ 4·6	115	0	6	1·07	+ 0·07	*	*	*	*
	Foynes	66	47	62·4	52·9	57·4	+ 4·0	108	0	7	1·44	+ 0·69	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	56	64·4	56·9	60·5	+ 3·3	130	0	5	0·98	+ 0·20	28·4	?	34	?
	Jersey	69	47	66·0	54·4	59·9	+ 1·4	125	0	2	0·32	− 0·47	40·7	+ 1·9	49	+ 2

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

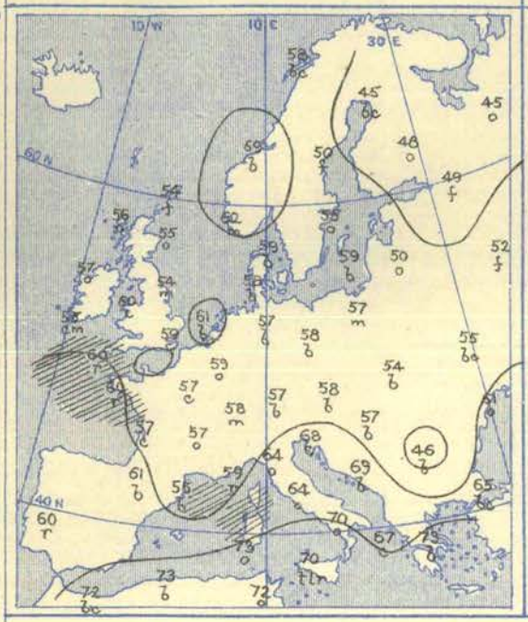
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 22nd September.

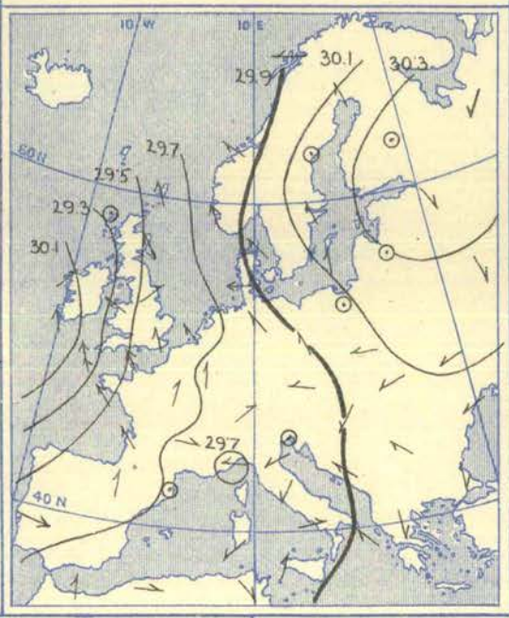
Temperature and Weather.

8 a.m.

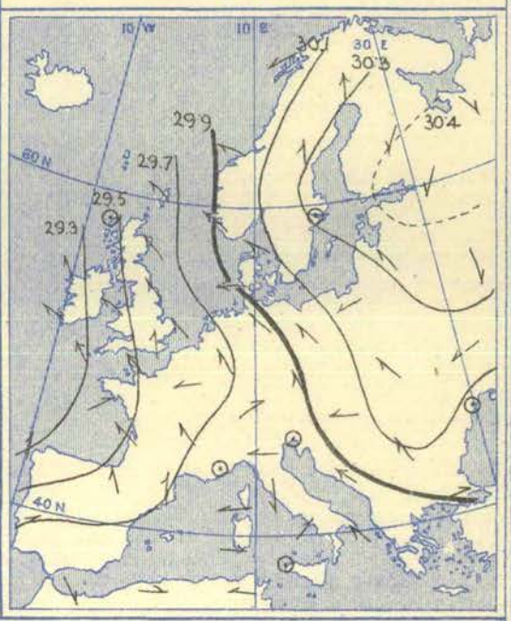


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning gloomy, squally, and rough at our western stations and Brittany; fair in the east, fine and bright over central Europe. A separate system of rainy weather prevalent over the northern shores of the Mediterranean. Rain later over all the northern and western parts of the Kingdom, more in several parts of France, Italy and the Adriatic, but none over northern Europe.

Temperature risen over Germany and Scotland but changing fitfully and irregularly elsewhere. Morning readings highest, 73° at Algiers and Patras and above 70° generally at stations on the southern side of the Mediterranean; about 60° on our Channel coasts; 69° at Christiansund, 62° at Skudesnaes, 60° at Holyhead, Scilly and Roches Point. Lowest, 45° at Archangel and Haparanda. Rising later to 70° at Christiansund, Nairn, Leith and in London, to 75° at Frankfort, Munich and Biarritz, 78° at Perpignan, 88° at Palermo, 90° at Biskra.

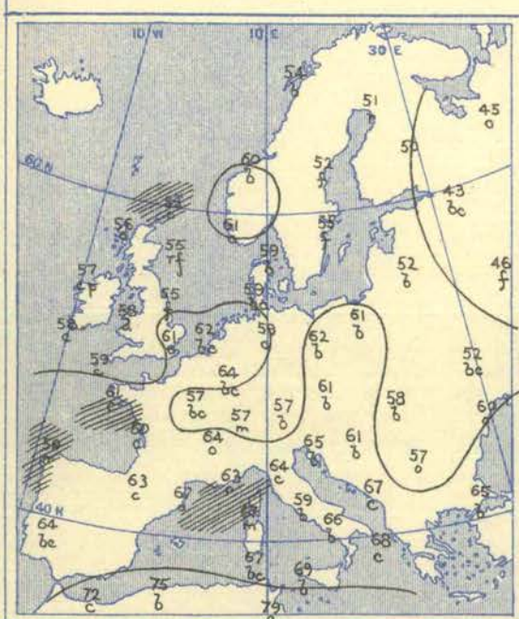
Wind Easterly to South-Easterly and anticyclonic over the eastern half of the Continent and Southerly over the northern half of France; strong to a gale from the Southward or South-Eastward at our western stations, similar in direction but lighter in force over the eastern and northern parts of the country. Blowing a gale later from the Southward or South-Eastward at all of our western stations but remaining moderate or fresh only in the east.

Barometer highest, 30·3 ins. to 30·1 ins. over Finland and the north of Russia and in Sweden, 29·9 ins. at Palermo. Lowest, 29·1 ins. and less in a depression over the south-western parts of Ireland and the western parts of the Bay of Biscay. Gradients steep at our western stations; moderate to slight over the Continent. Rising considerably in Ireland later, but falling over central Europe.

Monday, 23rd September.

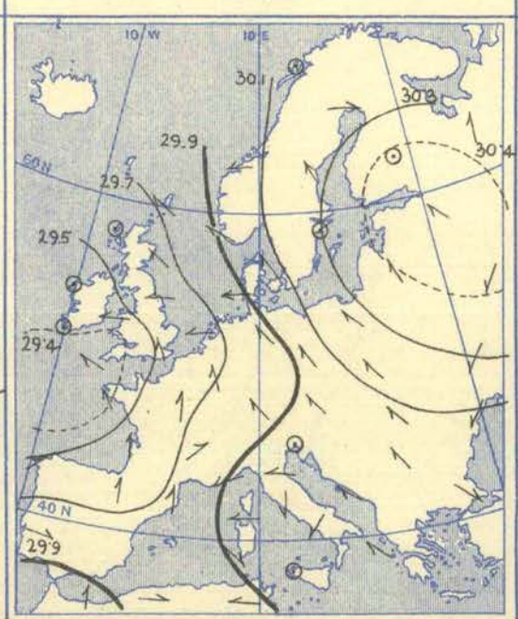
Temperature and Weather.

8 a.m.

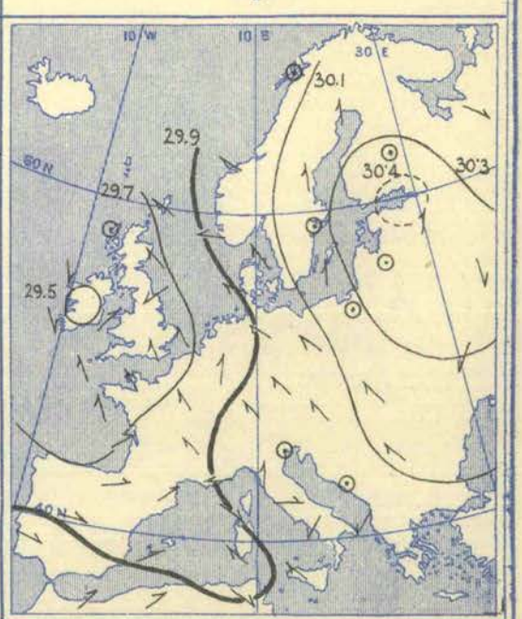


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the United Kingdom generally, with rain in several places, and fog on our north-eastern coasts. Cloudy also in the west of France, but fair generally at the Continental stations. Rain later in the west and north of our Islands, and also over the western and southern departments of France, where the fall was exceptionally heavy, as much as 3·90 ins. being measured at Sicié, and 2 ins. at Croisette. Thunder occurred during the day at Darwen and Harrogate and lightning at Biarritz.

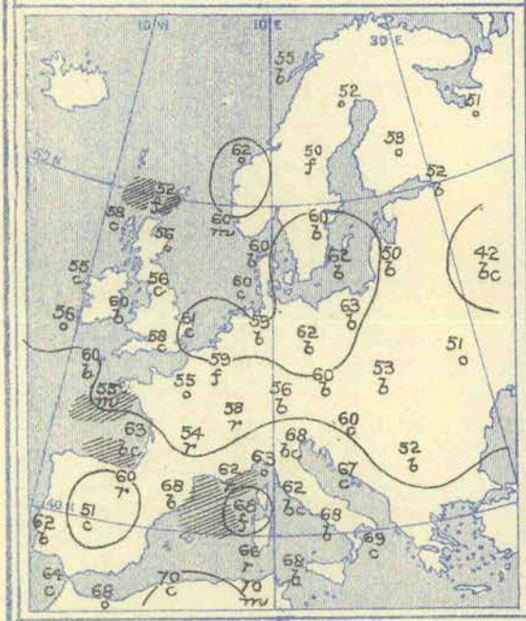
Temperature changed little and irregularly. Morning readings highest, 79° at Sfax, 75° at Algiers, 72° at Nemours and Oran, 69° at Palermo, and 68° at Brindisi, above 56° over southern Europe generally. Lowest, 43° at St. Petersburg, 45° at Archangel, 46° at Moscow and 51° at Haparanda. Rising during day to 65° and upwards at most of the English stations and to 69° at Loughborough, exceeding 70° over Germany and France, and rising to above 80° over southern Europe generally, the highest readings recorded being 88° at La Calle and 90° at Tunis.

Wind light to moderate in force generally from the Southward in France, but from the South-Eastward or Eastward over our Islands and on the Continent generally. Shifting to the Northward on the west coast of Ireland later, but changing very little elsewhere.

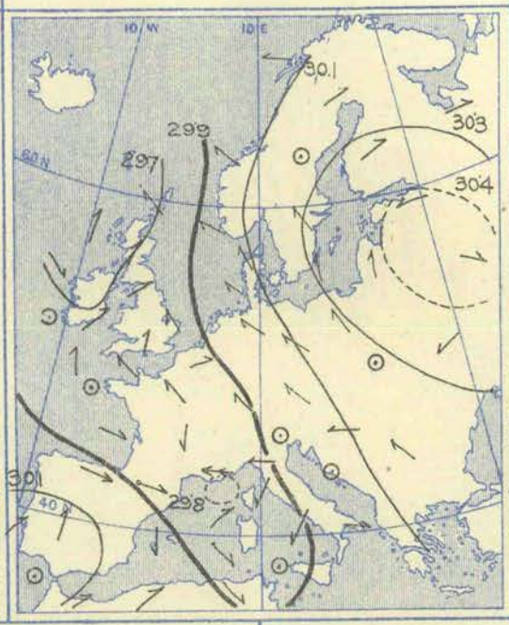
Barometer highest, 30·4 ins. and upwards in an anticyclone lying over central and western Russia. Lowest, 29·4 ins. and less in a shallow depression over our south-western coasts and the mouth of the English Channel. Depression moving northwards later to Ireland, and Russian high pressure decreasing somewhat in size and height.

Tuesday, 24th September.

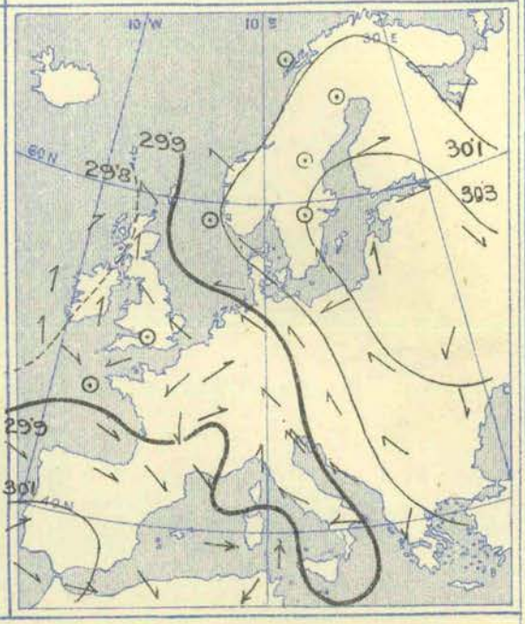
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy over the central and southern parts of France, but fair or fine over our Islands, and on the Continent generally. Rain falling later in the west and south of Ireland, as well as in France and Italy, as much as 1·50 ins. measured at Turin, and 1·10 ins. at Rome.

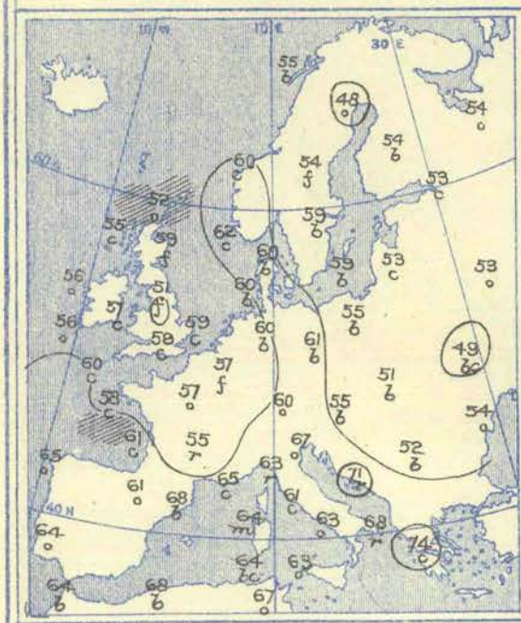
Temperature fallen somewhat over our Islands but changed irregularly at the Continental stations. Morning readings highest, (1) 70° at Tunis and Algiers, 69° at Brindisi, 68° at many Mediterranean stations, and 67° at Lesina; (2) above 60° at many stations on the eastern shores of the North Sea. Lowest, 42° at Moscow, 50° at Riga and Kharkov, 51° at Archangel, and 52° at Ulcaborg and St. Petersburg. Rising during day to 65° and upwards in most parts of Great Britain, the highest reading being 71° at Nairn, exceeding 70° over Germany, at several of the Scandinavian stations, the south of France, and southern Europe generally, and reaching 82° at Palermo, and 83° at Sfax.

Wind light from the Southwards or South-Eastwards over our Islands, and on the Continent as a whole, but variable in the south of Ireland, moderate to strong from West in the south-west of France, but blowing a fresh gale from the Eastward at Nice. Backing to the Southward in Ireland later, and becoming more variable over France and England; no change of importance elsewhere.

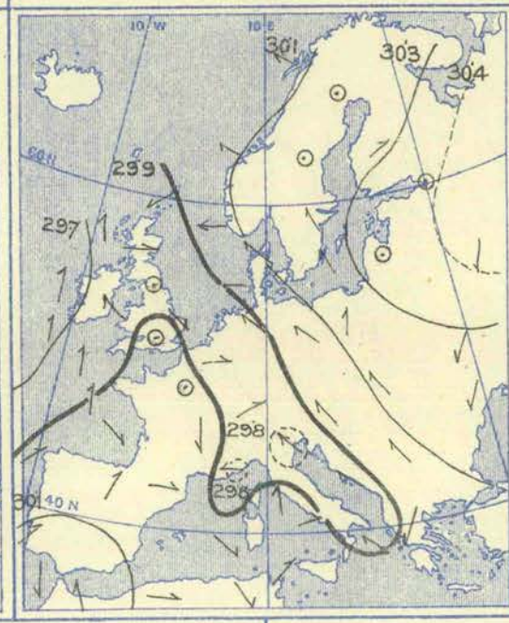
Barometer highest, 30·4 ins. and more in the centre of an anticyclone over Russia, and 30·1 ins. and upwards in another system over the Spanish Peninsula. Lowest, 29·7 ins. and less in a shallow depression lying over the extreme north and west of our Islands, and 29·8 ins. and less in a small disturbance over the Gulf of Genoa. No great change later, but high pressure over Russia steadily decreasing in height.

Wednesday, 25th September.

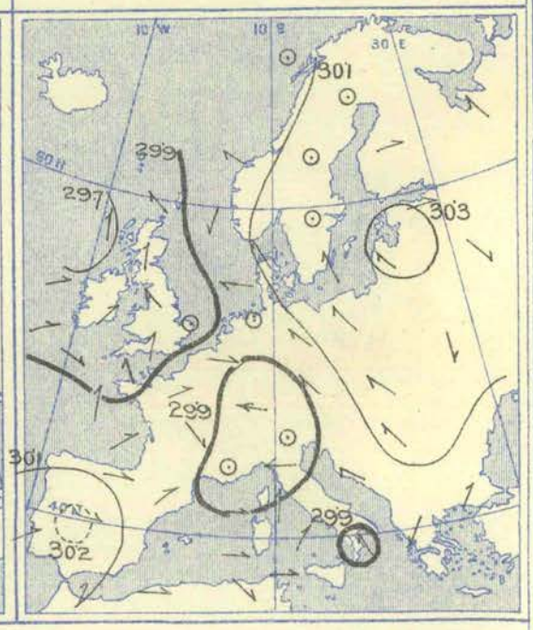
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over our Islands and on the Continent generally, but foggy or misty over the eastern and central parts of Great Britain. Fog also reported at Hernösand, Brussels and Belfort. Rain later at all our western and northern stations and also over France and Italy, where considerable amounts were measured.

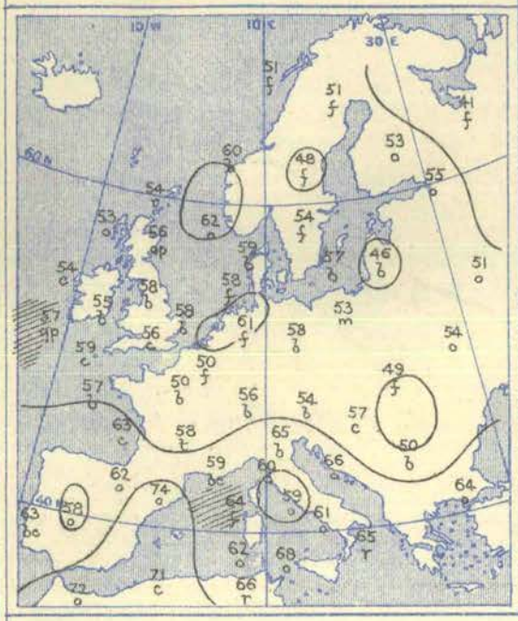
Temperature fallen a little over our Islands, risen over central Russia, but changed very little elsewhere. Morning readings highest, 75° at Sfax, 74° at Patras, 71° at Lesina and 68° at Brindisi and Athens, above 60° over southern Europe generally, and also on the eastern shores of the North Sea. Lowest, (1) 48° at Haparanda, 49° at Kiev and 50° at Warsaw; (2) 47° at Loughborough, 50° at Newton Reigny and 51° at Shields and Oxford. Rising during day to 71° at Nairn and Loughborough and 70° at Oxford, exceeding 70° over Austria and southern Europe, and touching 77° at Madrid, 82° at Palermo, and at several Algerian stations.

Wind light to moderate from South in the west and north of our Islands, South-Easterly or Easterly on the eastern shores of the North Sea, calm or variable over France and the central parts of Great Britain, and also over central Europe. A cyclonic circulation shown over the Mediterranean. No material change later but wind veering Westwards in Ireland.

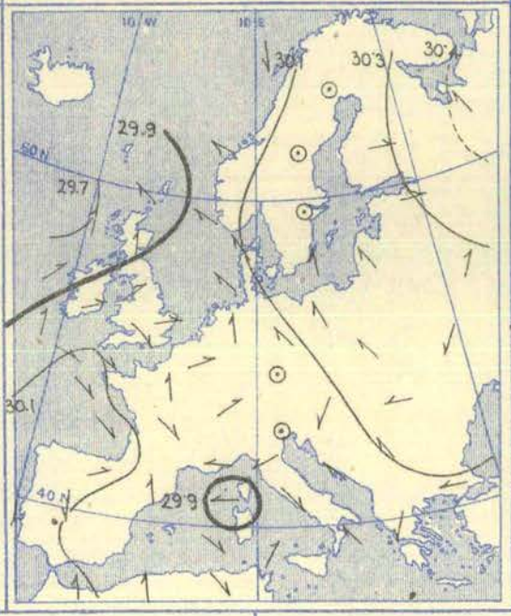
Barometer highest, 30·4 ins. and upwards in an anticyclone over northern and central Russia, and 30·1 ins. and upwards over the southern part of the Spanish Peninsula. Lowest, 29·7 ins. and less in a shallow depression off the west of Ireland, and 29·8 ins. and less in two small centres lying over the Gulf of Genoa, and the northern part of the Adriatic respectively. No important change later, but depression over Ireland spreading eastwards to Scotland and the west of England.

Thursday, 26th September.

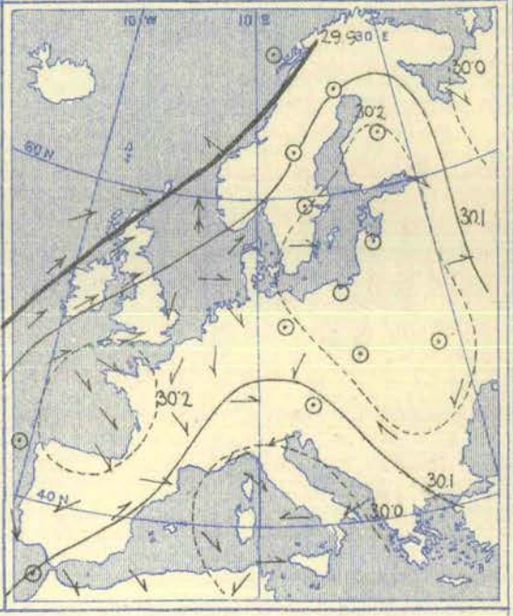
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the Continent and England, but foggy at many stations; rainy in Scotland, showery in the west of Ireland. Thunder reported at Lyons, rain at Limoges. Rain later at all our northern and western stations, and in several of the western and southern parts of France as well as in the west of Germany, but the weather fine over most parts of the Continent, and foggy in places.

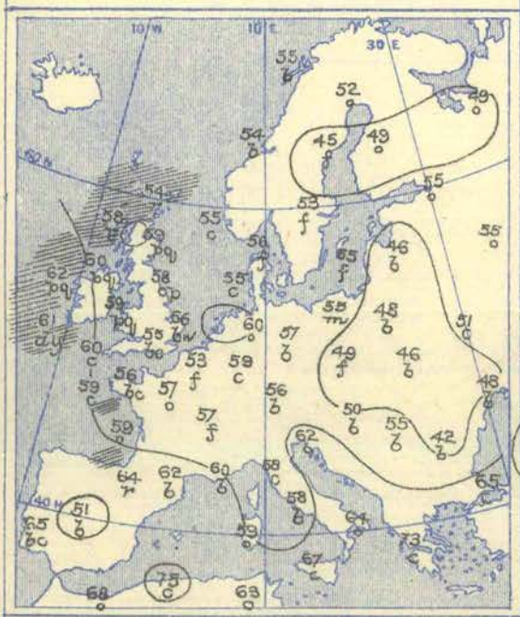
Temperature fallen over central Europe and in some parts of Ireland and Scotland, scarcely altered elsewhere. Morning readings highest, 70° and more on several parts of the Algerian coast, 69° at Oporto, 57° at Valencia. Lowest, 41° at Archangel, 50° at Nairn, 51° at Bodö, 53° at Stornoway. Rising later to more than 60° over the British Islands as a whole, to 70° and more in central Europe, to 84° at Algiers, and 79° at Palermo.

Wind very light and variable over the Continent (mainly South-Easterly over central Europe), South-Westerly and Southerly on our western coasts, Northerly in the west of France. Increasing later to a fresh or strong breeze from South-West at our western stations, but no material change occurring over the Continent.

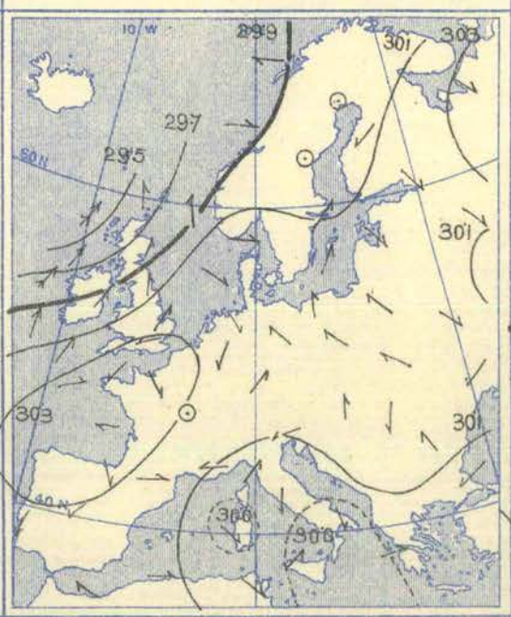
Barometer highest, 30·2 ins. and more to 30·4 ins. over the eastern part of the Continent; and 30·1 ins. to 30·2 ins. over the Bay of Biscay. Lowest, 29·74 ins. at Stornoway, near where was a rather shallow depression moving north-eastwards, and 29·88 ins. at Sanguinaire, changing but little later—rising in Ireland.

Friday, 27th September.

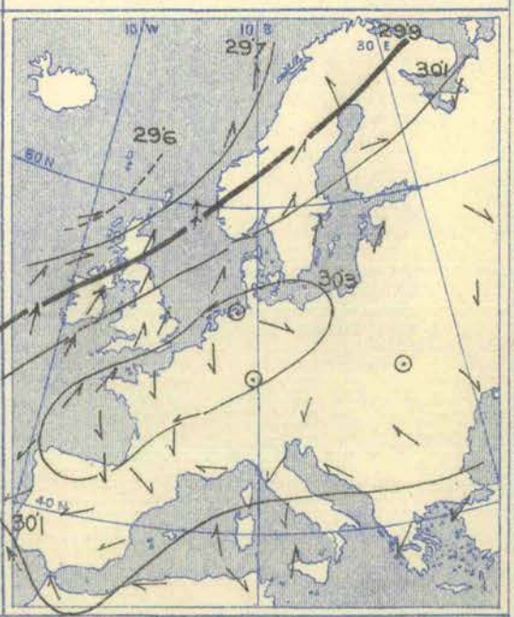
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning squally, showery and unsettled over our western and north-western districts, fair over the south-eastern half of England, fine over the major part of the Continent, but not so fine over the Mediterranean and southern Europe, raining at Limoges and at Pesaro. Rain later in all the northern and western parts of our Islands, and the north-west of Norway, but fine weather prevalent over the southern and eastern districts and over Europe generally.

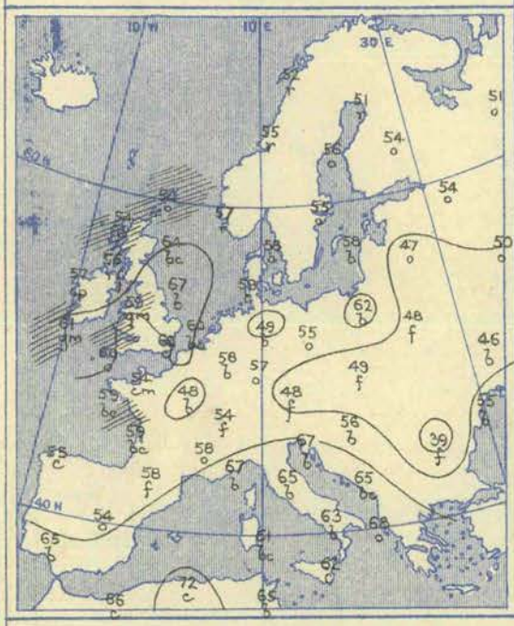
Temperature risen over the British Islands, fallen over eastern Europe. Morning readings varying from 75° at Algiers, 73° at Patras, 64° at Biarritz; 60° to 62° in Ireland, and 60° at Scilly, to 45° at Hernösand, 46° at Riga, 49° at Archangel and at Kharkov, 42° at Hermanstadt. Rising later to between 60° and 69° over the British Islands, 70° and more over Germany, 75° at Nice, 79° at San Fernando. 79° at Palermo, and in various parts of the north of Africa.

Wind South-Westerly, strong to a gale, on the extreme west and north-west coasts of the British Islands, fresh to strong in the west generally. Very variable on the Continent, and faint in force. More generally Southerly later over the United Kingdom and Scandinavia, but remaining very variable over the Continent.

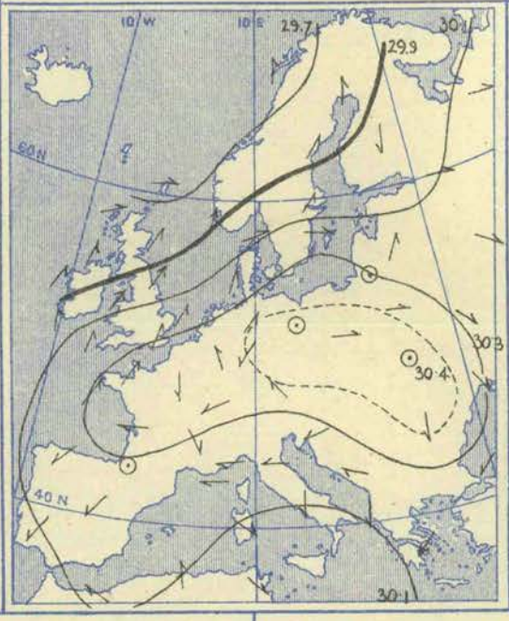
Barometer highest, 30·3 ins. and more over the Bay of Biscay and north-western half of France, and exceeding 30·2 ins. over Germany and the southern parts of the Baltic. Lowest, 29·49 ins. at Stornoway, and less than 29·6 ins. over the north and west of Scotland generally. Gradients steep in the west and north of our Islands. Very little change later.

Saturday, 28th September.

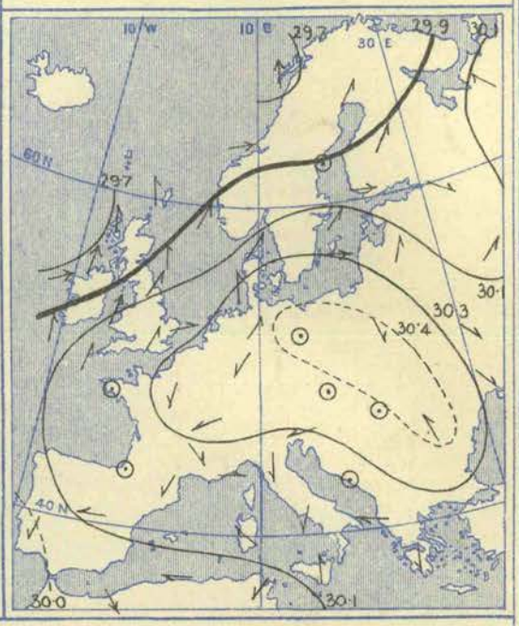
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over central Europe and France, fair over Spain and the south-eastern half of England: dull in the west and north-west generally, showery in the extreme west, rainy in the west of Norway and at Haparanda. Rain generally in Ireland, Scotland and Norway—heavy in several places, but the greater part of the Continent remaining fine. Fog prevalent over central Europe.

Temperature fallen over Ireland and Scotland, risen over England, but changing fitfully. Morning readings highest, 73° at Patras, 72° at Algiers, and above 60° over the Mediterranean generally; 61° to 60° over the extreme south of England, 64° to 67° over our north-east counties. Lowest, 46° at Kieff and below 50° over Hungary, at Riga and Hamburg, 50° at Uleaborg; 51° at Archangel and Haparanda, 54° in the Shetlands and Hebrides. Rising later to 71° in the north-eastern parts of England, 72° at Frankfürt, 75° at Nice and 77° at Madrid.

Wind light and anticyclonic over central Europe, Southerly and South-Westerly in Ireland, Scotland and Scandinavia; Easterly to North-Easterly over the Mediterranean and Spain. Very little change later.

Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone over central Europe. Lowest about 29·6 ins. in a low pressure system off the north-west of Norway, and 30·0 ins. over the southern side of the Mediterranean. Gradients somewhat steep over the British Islands. Very little change later.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	22·4	?	27	?	BRIGHTON	22·4	-12·9	27	-16
STRATHPEFFER SPA	30·8	+ 5·6	38	+ 7	WORTHING	31·6	?	38	?
EDINBURGH	20·2	- 1·5	24	- 3	BOGNOR	46·8*	?	56*	?
MORPETH	34·4	?	41	?	WATERGATE (Emsworth)	34·0	?	41	?
NEWCASTLE-ON-TYNE	28·0	?	34	?	WESTBOURNE (Emsworth)	43·7*	+ 9·5	53*	+11
OSWALDKIRK (Yorkshire)	25·6	+ 0·6	31	+ 1	VENTNOR HOSPITAL	40·5	+ 3·5	49	+ 4
YORK	20·9	- 4·1	25	- 5	BOURNEMOUTH	47·2	?	57	?
LOWESTOFT	29·3	?	35	?	SOUTHPORT	31·8	?	38	?
HOLLESLEY BAY	30·4	?	37	?	RHYL	*	?	*	?
SHEFFIELD	22·1	?	24	?	COLWYN BAY		?		?
WORKSOP	16·5	- 9·3	20	-10	ABERDOVEY	25·1*	?	30*	?
THURCASTON (Leicestershire)	22·5	- 4·0	27	- 5	TENBY	23·5	-8·6	28	-11
MARGATE	38·0	+ 6·0	46	+ 8	NEWQUAY	28·1	-4·4	34	- 6
BROADSTAIRS	29·2	?	35	?	TORQUAY	29·1	-3·9	35	- 5
EASTBOURNE	22·2	-13·8	27	-16	CAHIR (Duneske)	1·7*	?	2*	?
					GUERNSEY	37·1*	+0·6	45*	+ 1

* The values at Rognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending July 13th, 1901	Newquay	—	—	—	—	—	—	—	—	—	—	—	56·0	+ 7·5	50	+ 6
" " " 20th "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	77·0	?	77	?
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	74·3	?	66	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	65·9	?	58	?
" " " 27th "	Strathpeffer Spa	—	—	—	—	—	—	—	—	—	—	—	13·7	- 14·4	12	- 12
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	35·3	?	32	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	24·5	?	22	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 40.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 5TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 236.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	36	58·1	45·1	51·4	3 above	66	+21	0	− 6	2147	+359	561	−16
	1. SCOTLAND, EAST	67	35	59·2	45·1	51·9	3 above	69	+19	0	− 7	2300	+178	657	+30
	2. ENGLAND, N.E.	74	40	61·7	50·2	55·8	5 above	97	+40	0	− 3	2590	+273	516	+ 3
	3. ENGLAND, EAST	77	36	65·0	49·9	57·2	5 above	106	+41	0	− 4	2830	+145	560	+ 1
	4. MIDLAND COUNTIES	75	36	63·6	48·6	55·9	5 above	97	+38	0	− 5	2817	+178	591	+23
	5. ENGLAND, SOUTH	76	35	65·0	51·4	58·0	5 above	112	+36	0	− 2	2965*	+ 43	445	+33
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	38	58·4	46·3	52·2	2 above	71	+15	0	− 4	2438	+181	470	+29
	7. ENGLAND, N.W.	68	41	60·7	50·7	55·6	4 above	95	+32	0	− 2	2673	+198	453	+39
	8. ENGLAND, S.W.	72	36	62·7	50·2	56·3	4 above	100	+30	0	− 2	2902	+189	369	+48
	9. IRELAND, NORTH	63	34	57·7	46·2	51·8	1 above	69	+12	0	− 3	2401	+ 18	374	+ 5
	10. IRELAND, SOUTH	67	36	59·6	48·3	53·8	2 above	83	+18	0	− 2	2756	+ 55	325	+59
	—CHANNEL ISLANDS	73	50	63·4	54·6	58·8	3 above	118	+28	0	0	3281	+150	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 236.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	15	3 more	172	+ 2	30·3	− 5·1	25	+ 4	32	+ 6	1140	+141	30	+ 3
	1. SCOTLAND, EAST	6	6	1 less	149	+ 3	20·4	− 2·9	20	− 3	25	− 4	1291	+147	35	+ 4
	2. ENGLAND, N.E.	5	8	2 more	127	− 9	16·1	− 2·7	18	− 6	22	− 8	1360*	+209	36	+ 5
	3. ENGLAND, EAST	5	8	2 more	119	−16	14·1	− 4·5	30	− 1	37	− 1	1581	+144	41	+ 4
	4. MIDLAND COUNTIES	3	6	1 less	117	−13	19·4	− 1·4	18	− 4	23	− 4	1330	+140	38	+ 4
	5. ENGLAND, SOUTH	5	8	1 more	110*	−17	18·5*	− 1·9	30	− 2	38	− 2	1622	+163	44	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	17	6 more	152	− 7	34·1	− 3·2	18	− 6	23	− 6	1379	+180	37	+ 5
	7. ENGLAND, N.W.	5	12	3 more	137	− 6	19·4	− 5·9	19	− 1	24	− 2	1500	+257	40	+ 7
	8. ENGLAND, S.W.	4	8	2 less	127	−20	25·6	− 3·5	23	− 5	29	− 8	1528	+ 67	42	+ 2
	9. IRELAND, NORTH	6	9	1 more	170	0	26·6	0·0	19	− 4	24	− 5	1167	+ 65	32	+ 2
	10. IRELAND, SOUTH	5	10	2 more	141	−13	27·0	− 2·6	20	− 9	25	−11	1286	+ 30	35	+ 1
	— CHANNEL ISLANDS	4	11	3 more	143	− 3	22·0	− 0·8	34	+ 1	43	+ 1	1688	+ 21	47	0

* This value has been altered slightly owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was again of a very unsettled and generally rainy character. There were, however, some very fine intervals from time to time, especially over the south and east of England. Thunderstorms were experienced at some of the English stations on Tuesday.

Temperature was again above the mean, the excess ranging from 1° or 2° in Ireland and 2° in Scotland W. to 5° over the greater part of England. The highest of the maxima occurred on Sunday, when they were as high as 77° in England E., 76° in England S., 75° in the Midland Counties, and 74° in England N.E. Elsewhere they ranged from 73° in the Channel Islands to 63° in Scotland W. The lowest of the minima were recorded on Saturday over the Kingdom generally, and ranged from 34° in Ireland N. and 35° in Scotland E. and England S. to 40° in England N.E., 41° in England N.W. and to 50° in the Channel Islands.

Rainfall exceeded the mean in most districts, but was deficient in Scotland E., the Midland Counties and England S.W.

Bright Sunshine was less than the normal in nearly all districts. The percentage of the possible duration ranged from 43 in the Channel Islands, 38 in England S., and 37 in England E. to 23 in Scotland W. and the Midland Counties, and to 22 in England N.E.

Barometer and Wind.—The general distribution of pressure over our Islands during this week was cyclonic, but the gradients were not steep. The chief systems were a large hollow which covered the entire Kingdom on Wednesday, and then passed away to the eastward ; a large and irregularly shaped "V" disturbance which extended from north to south during Friday, and a depression which advanced rapidly (apparently from the north-westward) on Friday night and on Saturday had its centre near the Shetlands. The wind was as a rule light to moderate in force and varied in direction from South-West to West or North-West, but by the end of the week it has increased very considerably in strength in the West and North, and the change was extending to the Southward.

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II.—DATA from which the SUMMARY on page 235 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	42	54·6	47·6	51·0	+ 3·4	63	0	6	1·03	+ 0·12	*	*	*	*
	Stornoway	64	39	59·6	45·1	52·1	+ 4·1	71	0	6	1·48	+ 0·38	29·9	+ 7·7	38	+10
	Wick	64	43	58·3	47·7	52·8	+ 4·0	76	0	5	1·02	+ 0·34	*	*	*	*
	Lairg Ⓢ	68	36	61·1	41·7	51·1	+ 3·9	65	1	6	1·24	+ 0·44	*	*	*	*
	Glencarron Ⓢ	63	39	55·7	42·9	49·1	+ 1·4	50	0	6	2·33	+ 0·42	*	*	*	*
	Fort Augustus Ⓢ	64	39	59·7	44·0	51·6	+ 3·1	67	0	6	0·92	- 0·02	25·2	+ 9·3	32	+12
	Fort William Ⓢ	62	42	57·6	46·8	52·0	+ 2·1	70	0	7	2·26	+ 0·56	18·0	- 1·3	23	-2
1. SCOTLAND, E.	Nairn	64	37	61·0	42·0	51·2	+ 2·2	64	0	5	0·57	0·00	*	*	*	*
	Aberdeen	62	43	58·1	47·4	52·6	+ 3·1	74	0	6	0·95	+ 0·27	21·3	- 4·0	27	- 5
	Braemar Ⓢ	60	35	55·5	40·7	47·9	+ 2·3	47	4	7	0·64	- 0·19	*	*	*	*
	Ochtertyre Ⓢ												*	*	*	*
	Leith	67	43	62·1	49·7	55·7	+ 4·9	96	0	5	0·44	- 0·04	*	*	*	*
	Marchmont Ⓢ	66	40	59·3	45·6	52·3	+ 4·0	72	0	5	0·48	- 0·29	19·3	- 3·2	24	- 5
2. ENGLAND, N.E.	Alnwick Castle	68	42	60·4	49·6	54·8	+ 5·1	90	0	5	0·85	+ 0·15	*	*	*	*
	Durham	62	41	59·6	49·7	54·5	+ 4·6	88	0	6	0·78	+ 0·16	18·9	- 4·6	24	- 6
	Shields	69	48	60·6	51·1	55·7	+ 5·1	96	0	5	1·21	+ 0·63	*	*	*	*
	Scarborough Ⓐ	65	40	61·4	48·4	54·7	+ 3·5	89	0	5	0·68	+ 0·01	17·1	?	21	?
	Spurn Head	74	46	63·3	53·1	58·1	+ 5·6	113	0	4	0·47	- 0·01	*	*	*	*
	Fulbeck (Lincolnshire)	73	40	64·9	49·0	56·7	+ 6·1	103	0	5	0·55	0·00	*	*	*	*
3. ENGLAND, E.	Hillington Ⓐ	77	36	66·5	47·9	56·9	+ 5·3	104	0	5	0·72	+ 0·09	28·5	+ 2·0	36	+ 3
	Yarmouth	65	42	61·4	52·6	56·9	+ 4·3	104	0	3	0·33	- 0·32	*	*	*	*
	Geldeston	75	40	65·9	49·6	57·5	+ 5·2	109	0	5	0·61	+ 0·03	28·0	- 2·1	35	- 3
	Cambridge	75	38	67·2	48·9	57·8	+ 5·7	111	0	5	1·42	+ 0·90	27·8	- 0·7	35	- 1
	Felixstowe	67	42	62·7	52·2	57·3	+ 5·0	107	0	5	1·07	?	34·4†	?†	43†	?†
	Rothamsted	71	39	66·0	47·9	56·7	+ 5·7	103	0	5	0·46	- 0·20	28·1	- 0·9	35	- 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	41	63·3	48·3	55·6	+ 4·8	95	0	3	0·34	- 0·24	*	*	*	*
	Loughborough	75	36	55·4	50·4	57·7	+ 6·1	110	0	4	0·28	- 0·32	*	*	*	*
	Colly Weston (Stamford)	75	38	66·1	49·1	57·4	+ 6·4	108	0	4	0·69	?	*	*	*	*
	Cheadle Ⓐ	65	39	60·2	48·0	53·9	+ 4·1	83	0	4	1·23	+ 0·48	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	41	62·2	49·4	55·6	+ 4·5	95	0	4	0·77	+ 0·15	10·7	?	13	?
	Churchstoke Ⓐ															
	Hereford (Belmont) Ⓐ	67	36	62·0	47·9	54·7	+ 3·4	89	0	2	0·52	- 0·11	*	*	*	*
	Cirencester	71	36	64·0	47·9	55·7	+ 5·1	96	0	4	0·75	+ 0·05	27·7	+ 0·7	35	+ 1
	Oxford	72	39	65.9	48·0	56·7	+ 4·9	103	0	2	0·22	- 0·40	31·7	+ 3·8	40	+ 5
5. ENGLAND, S	London	76	40	67·3	49·3	58·0	+ 4·9	112	0	5	1·02	+ 0·44	18·2†	- 4·8†	23†	- 6†
	Swarraton (Alresford) Ⓐ	72	35	65·0	47·0	55·7	+ 4·9	96	0	6	0·84	+ 0·11	*	*	*	*
	Dungeness	69	44	65·0	52·9	58·8	+ 4·4	118	0	3	0·19	- 0·49	32·5	?	41	?
	Hastings (St. Leonards)	71	45	64·8	53·1	58·8	+ 4·8	118	0	3	0·27	- 0·48	32·9	+ 0·1	41	0
	Southampton	72	40	67·7	51·1	59·2	+ 5·5	120	0	6	1·04	+ 0·32	32·9	+ 2·7	41	+ 2
	Portland Bill	65	47	62·0	55·4	58·6	+ 4·8	116	0	4	1·36	?	*	*	*	*
	Shaftesbury Ⓐ	69	39	63·1	50·8	56·8	+ 5·9	104	0	6	1·19	+ 0·37	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	39	58·4	45·0	51·5	+ 1·7	67	0	6	1·84	+ 0·20	*	*	*	*
	Glasgow	62	44	57·8	47·7	52·6	+ 3·4	74	0	6	1·64	+ 0·79	18·7	+ 0·2	24	+ 1
	Glenlee Ⓢ	63	38	58·7	45·0	51·7	+ 2·4	68	0	6	2·08	+ 0·88	*	*	*	*
	Douglas (Isle of Man)	62	41	58·6	47·3	52·8	+ 2·0	76	0	5	1·35	+ 0·40	17·5	-11·0	22	-13
7. ENGLAND, N.W.	Newton Reigny	62	41	59·1	48·1	53·4	+ 4·3	80	0	4	1·32	?	14·2	?	18	?
	Stonyhurst	64	43	59·8	49·6	54·6	+ 4·4	88	0	5	2·07	+ 0·92	19·0	- 4·9	24	- 6
	Blackpool Ⓐ	66	50	62·2	53·0	57·5	+ 5·9	109	0	5	1·11	+ 0·21	21·9	- 2·0	27	- 3
	Manchester (Prestwich)	66	43	61·4	48·7	54·9	+ 4·4	90	0	5	1·33	+ 0·43	10·7	?	13	?
	Liverpool Obsy. (Bidston)	65	49	60·9	52·3	56·5	+ 4·3	102	0	4	0·83	+ 0·08	21·9	?	27	?
	Chester (Hawarden Bridge)	66	47	62·1	50·4	56·1	+ 3·7	99	0	3	0·40	?	*	*	*	*
	Llandudno Ⓐ	68	47	61·8	51·7	56·6	+ 3·4	102	0	6	1·20	+ 0·38	26·9	+ 3·1	34	+ 4
	Holyhead	62	49	58·3	51·6	54·9	+ 1·7	90	0	5	1·56	+ 0·69	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	36	61·7	47·1	54·2	+ 3·4	85	0	7	1·19	+ 0·02	*	*	*	*
	Pembroke	65	50	61·0	53·0	56·9	+ 3·1	104	0	2	0·63	- 0·22	20·8	- 7·4	26	-10
	Clifton	70	41	63·2	51·3	57·1	+ 4·7	106	0	4	0·48	- 0·35	*	*	*	*
	Bath	72	37	65·7	48·9	57·1	+ 4·7	106	0	4	0·62	?	22·2	?	25	?
	Arlington (N. Devon)	66	42	60·7	48·9	54·6	+ 2·8	88	0	4	1·41	+ 0·13	*	*	*	*
	Cullompton Ⓐ	71	38	65·0	48·8	56·7	+ 4·6	103	0	4	1·01	+ 0·19	18·9	- 8·1	24	-10
	Falmouth	63	48	60·6	52·9	56·6	+ 2·4	102	0	4	0·45	- 0·63	25·1	- 5·9	31	- 8
	Plymouth	69	42	63·5	51·0	57·1	+ 3·7	106	0	4	0·68	- 0·15	23·9	- 5·8	30	- 7
9. IRELAND, N.	Malin Head	61	46	57·4	49·7	53·4	+ 1·9	80	0	5	0·64	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)												*	*	*	*
	Blacksod Point	60	36	57·3	43·3	50·1	+ 1.2	57	0	7	0·94	+ 0·10	*	*	*	*
	Markree Castle	59	42	57·3	48·1	52·6	0·6	74	0	5	0·33	?	*	*	*	*
	Armagh	60	34	57·8	42·6	50·0	+ 0·2	56	0	6	1·15	+ 0·23	18·6	- 3·7	23	- 5
	Donaghadee	63	40	59·3	45·9	52·4	+ 2·6	73	0	7	1·10	+ 0·42	19·2	- 4·0	24	- 6
		59	43	57·3	47·6	52·3	+ 1·2	72	0	5	1·45	+ 0·77	*	*	*	*
10. IRELAND, S	Dublin	65	43	60·0	49·1	54·4	+ 2·3	87	0	5	0·43	- 0·17	14·5	-14·3	18	-18
	Parsonstown	61	39	58·7	44·7	51·5	+ 1·0	67	0	6	0·88	+ 0·19	18·9	- 7·1	24	- 9
	Kilkenny	62	36	59·4	45·7	52·4	+ 1·3	73	0	4	0·75	+ 0·07	*	*	*	*
	Roches Point	62	47	59·7	51·1	55·3	+ 2·1	93	0	5	0·78	- 0·12	*	*	*	*
	Valencia	60	42	58·7	48·3	53·4	- 0·3	80	0	6	1·22	+ 0·07	20·6	- 6·4	26	- 8
	Killarney	67	43	61·8	48·0	54·7	+ 2·3	89	0	6	1·86	+ 0·75	*	*	*	*
	Foynes	67	46	59·0	50·9	54·9	+ 3·2	90	0	4	1·03	+ 0·23	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	52	61·7	55·3	58·4	+ 2·6	115	0	2	0·58	- 0·22	31·6	?	40	?
	Jersey	73	50	65·1	53·9	59·3	+ 2·7	121	0	5	1·65	+ 0·77	35·6	+ 0·6	45	+ 1

Stations marked Ⓐ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

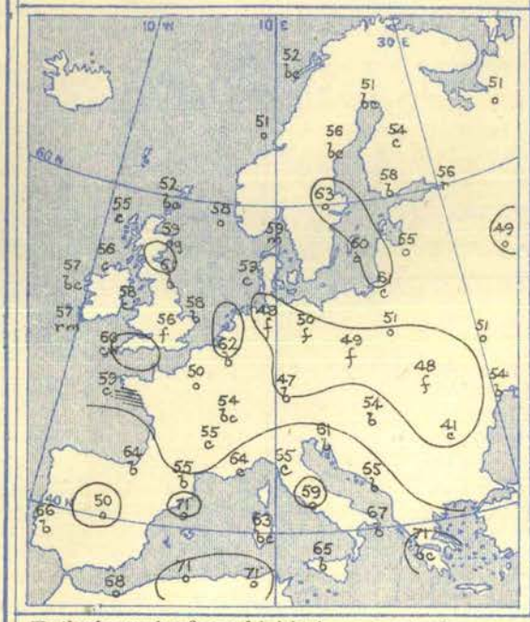
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

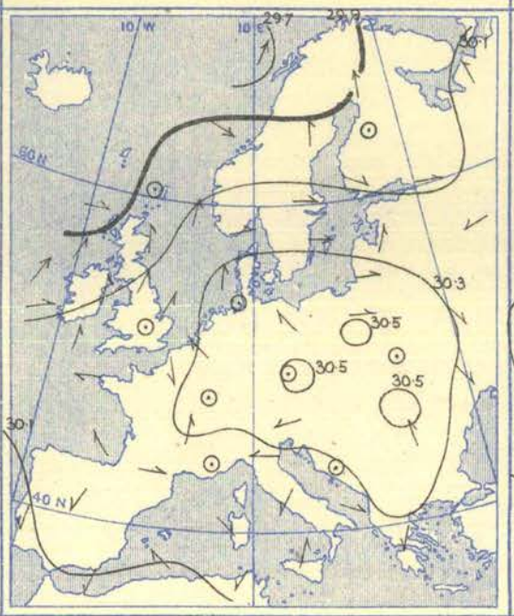
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 29th September.

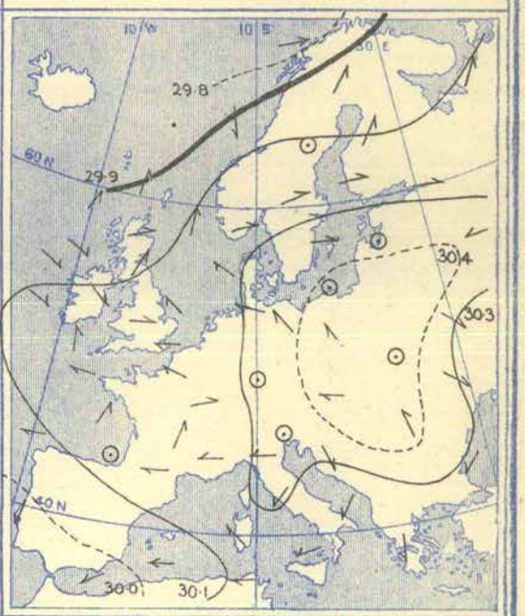
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in most parts of our area, but overcast at many of the Mediterranean and Russian stations, foggy over Germany and the south-east of England, and dull and rainy in Ireland. Rain also falling at St. Petersburg. Considerable rain later in the north of Scotland, over Ireland, and the north of Norway, and smaller quantities at Turin and Kharkov. Sky clearing in Italy, but a thunderstorm occurring at Corunna.

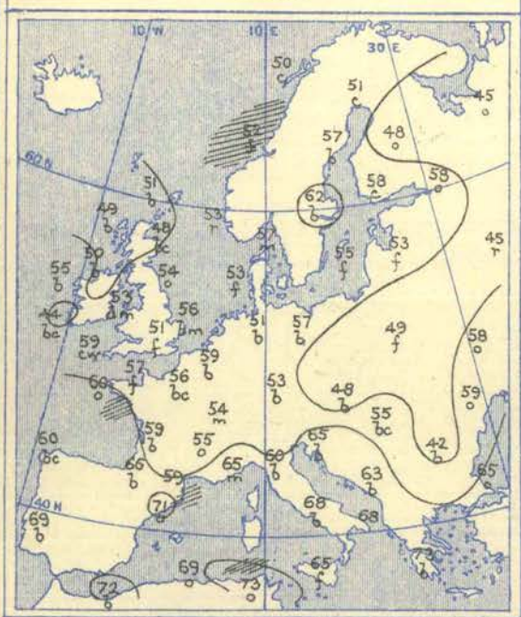
Temperature at 8 a.m. highest, 71° on some of the Mediterranean shores, 66° at Lisbon, 62° at Portland Bill and Leith, and 63° at Stockholm. Lowest, 41° at Hermanstadt, 47° at Cracow, 48° at Ulealborg and Cuxhaven, 49° at Vienna and Moscow, and 51° at Archangel. Lowest in our Islands, 52° at Sumburgh Head and Dungeness. Rising later to 70° or above on our north-east coast, in parts of Germany and France, to 77° at Utrecht, 79° at Cagliari, and to 81° at Palermo and Oporto. Thermometer not exceeding 60° at some of our own north-western stations.

Wind light or moderate from the Southward in most parts of the United Kingdom, and fresh or strong from the same quarter over the major portion of Scandinavia; light and variable over Russia and central Europe, and mainly Easterly in the countries bordering the Mediterranean, and North-Easterly to Northerly over the Spanish Peninsula. Very little change generally later, but Southerly wind extending to France and Finland, and force decreasing over Norway and Sweden.

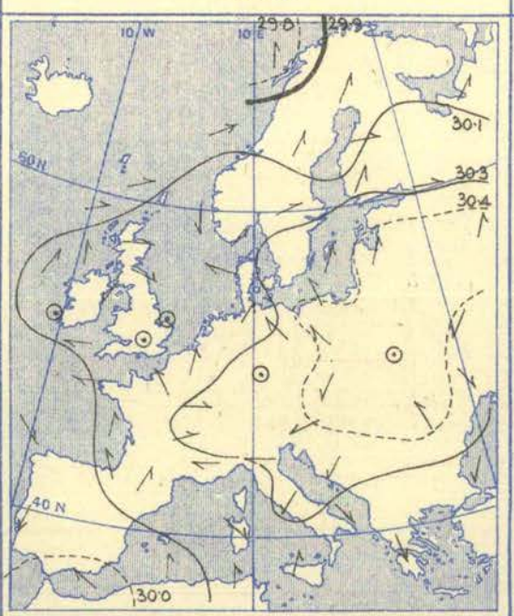
Barometer in morning highest, 30·4 ins. to 30·5 ins. in an anticyclone covering nearly the whole of central Europe, and possessing three distinct maxima. Lowest, 29·7 ins. and less to the westward of Bodö, and below 30·0 ins. over Scotland and the northern half of Scandinavia. Anticyclone moving eastwards later, and diminishing somewhat in height. Barometer rising over northern Europe, and falling over Spain and Algeria.

Monday, 30th September.

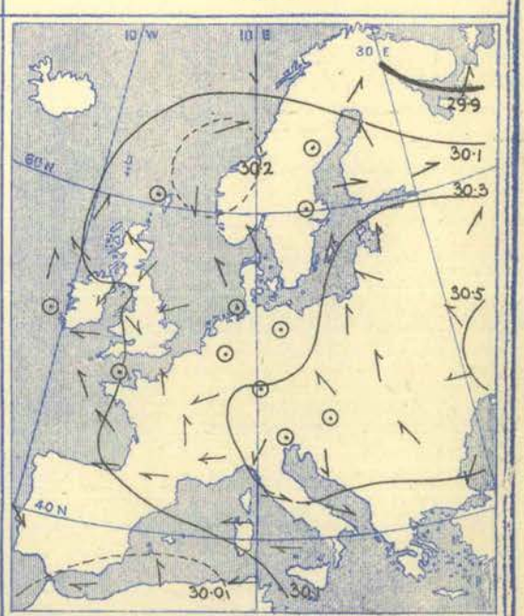
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western Europe as a whole, but rainy at Ulealborg and slight drizzle prevailing at Roche's Point and Holyhead. Foggy over central and south-eastern England, in southern Germany, Denmark, and at several Baltic stations. Slight rain later at several of our western and northern stations, and in parts of Norway and Sweden, and enormous quantities in the extreme south of France. At Perpignan the fall amounted to 2·40 ins., and at Cape Béarn to as much as 6·38 ins.

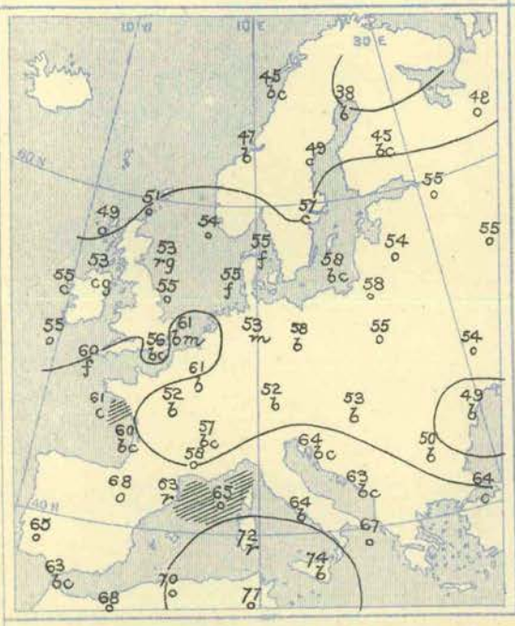
Temperature at 8 a.m. highest, 75° at Sfax, and between 66° and 73° over southern Europe generally. Lowest, (1) 42° at Hermanstadt, (2) 45° at Moscow and Archangel, (3) 43° at Parsonstown, and 45° at Nairn, (4) 47° over central England. Rising during day to 72° at Oxford, to a similar or rather higher value over Germany and Austria-Hungary, to 80° at Leghorn, 81° at Biarritz, and 88° at La Calle. Maximum readings of 70° reported at Stockholm and Wisby, but thermometer not reaching 60° on some parts of our northern and north-western coasts.

Wind moderate from the South-Westward over Scandinavia, the Baltic, and Finland, very light and variable over the United Kingdom, central and south-eastern Europe, and mainly from some Northerly or Easterly point over the northern parts of the Mediterranean and in the Adriatic. Very little change generally during day, but South-Westerly breeze dying out in the north, and Easterly wind freshening at some of the Mediterranean stations.

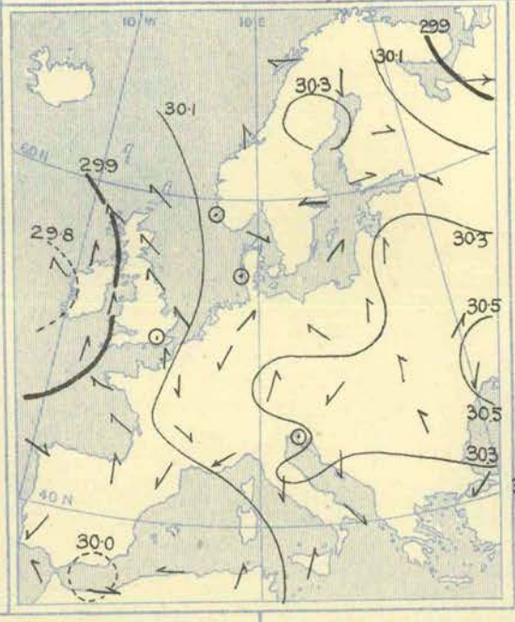
Barometer in morning highest, 30·2 ins. to nearly 30·5 ins. in a large anticyclone covering the greater part of Russia and south-eastern Europe, the south of Sweden, Denmark, France, and the central and southern countries. Lowest, 29·8 ins. and less in Finmark, and below 30·0 ins. over western Algeria and Morocco. Anticyclone moving slowly east-south-eastwards later, and a like, but smaller, system appearing over the west of Norway. Depression in Finmark moving towards the White Sea, and barometer beginning to fall on our west and south-west coasts.

Tuesday, 1st October.

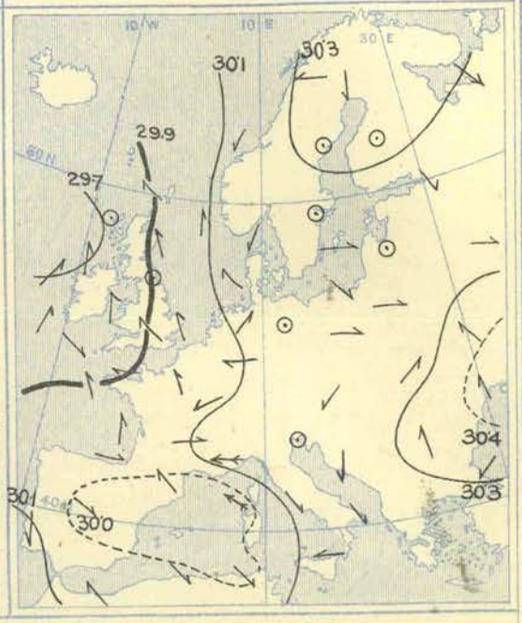
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the south-east of England and in nearly all parts of the Continent but dull in Algeria, northern Russia and the greater part of the United Kingdom, with fog over central England, and rain at some of the Scotch and Irish stations. Fog also prevalent in Denmark and in parts of Germany. Slight rain later at nearly all our own and heavy amounts at some of the French stations—as much as 2·32 ins. in Cette. Considerable falls of rain at Turin and Cagliari also.

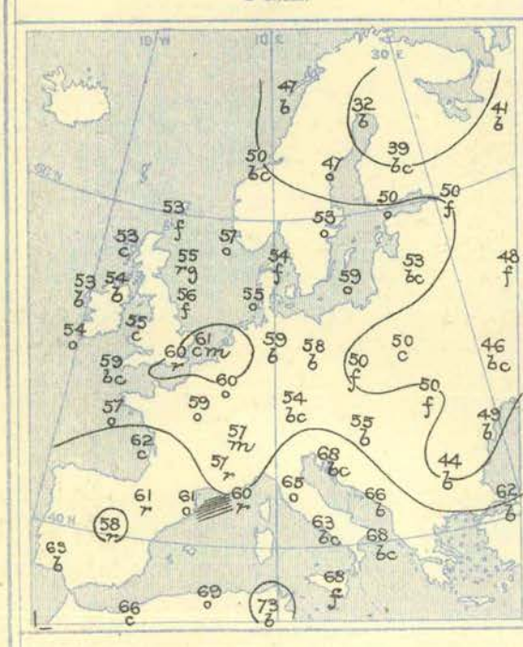
Temperature at 8 a.m. highest, 77° at La Calle, 74° at Palermo, 72° at Cagliari and 68° at Leghorn and Biarritz. Highest in our Islands, 63° at Dungeness. Lowest, (1) 38° at Haparanda, 45° at Bodö and Kuopio, (2) 49° at Buda-Pesth; (3) 49° at Odessa. Lowest in the United Kingdom, 49° at Nairn and Stornoway. Rising during day to 71° at Oxford, 75° in London, above 70° over the southern and central countries generally, to 79° at Florence, 82° at Palermo, and to 84° at La Calle.

Wind South-Easterly over our Islands and the west and north of France, and light or moderate in force; light and variable in most Continental regions, but Northerly in Italy and strong from the Eastward in the Riviera and the south of Sardinia. Fresh from the Westward at Archangel. Not much change later, but Easterly wind becoming still stronger in the northern and central parts of the Mediterranean, and blowing a gale at Sanguinaires and Nice.

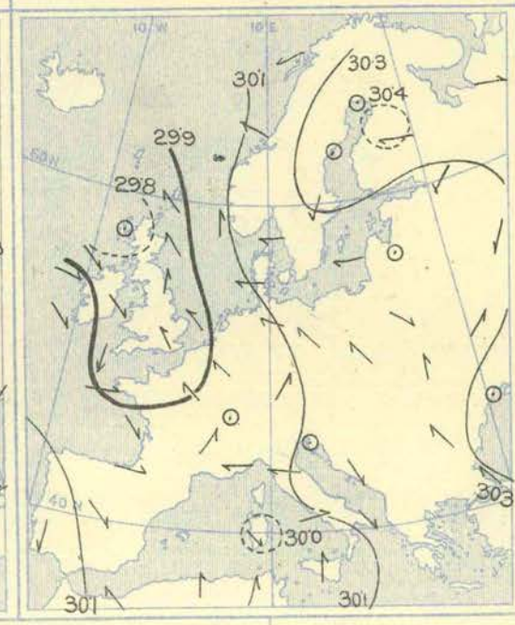
Barometer at 8 a.m. highest, 30·3 ins. to 30·5 ins. in an anticyclone of irregular shape embracing central and southern Russia, Austria-Hungary, the Balkan Provinces and the Black Sea, and about 30·3 ins. in a smaller area over the north of Scandinavia. Lowest, 29·8 ins. and less in a depression off the west of Ireland, and below 30·0 ins. over all except the eastern portion of the United Kingdom. About 30·0 ins. in a small depression over western Algeria. No material modification during day, but depression off Ireland moving northwards and a disturbance forming over Mediterranean.

Wednesday, 2nd October.

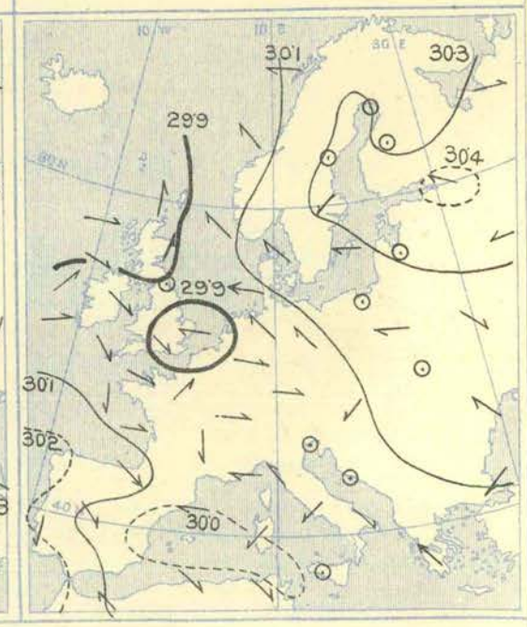
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on our western and south-western coasts, dull and rainy in all other parts of our Islands, cloudy and unsettled in most parts of France, with rain at Lyons, Nice, and Biarritz; rain also falling at Madrid. Fine in most other Continental regions, but foggy on the Baltic shores, as well as at St. Petersburg and Moscow, and some parts of central Europe. Rain during day at nearly all our own stations, France and the northern parts of Italy, as much as 1·65 ins. at Nice and 2·28 ins. at Gap.

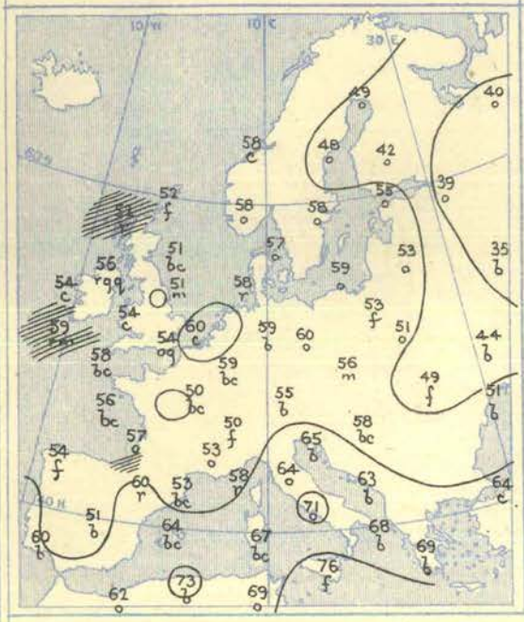
Temperature at 8 a.m. highest, 73° at La Calle, 68° at Trieste, Brindisi, and Palermo, and above 60° over southern Europe generally as well as on our own south-east coasts. Lowest, (1) 32° at Haparanda, (2) 44° at Hermanstadt, (3) 49° at Parsonstown. Rising during day to 67° in London, 68° at Oxford, to a few degrees above 70° over southern and central Europe, to 82° at Palermo and 84° at Oran.

Wind light from North-West over Ireland and the west of England, light from the South-Eastward over the eastern half of Great Britain. No decided circulation over the major portion of the Continent, but a light North-Easterly wind over Finland and the Baltic, and a light cyclonic movement in the neighbourhood of Sardinia. No important change later.

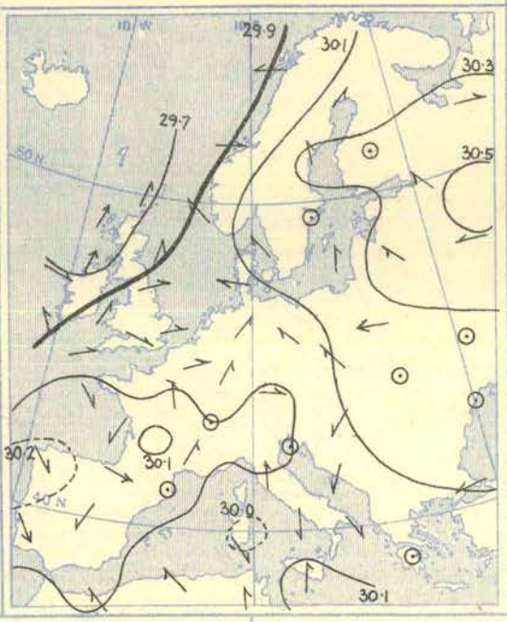
Barometer in morning highest, about (1) 30·4 ins. in an anticyclone over Finland and above 30·2 ins. over northern and eastern Europe generally, (2) 30.19 ins. at Lisbon. Lowest, (1) 29·8 ins. and less over the north-west of Scotland, and below 29·9 ins. over nearly the whole of the United Kingdom and the north of France, (2) below 30·0 ins. over Sardinia. Finnish anticyclone moving south-eastwards later, and low pressure over our Islands moving slightly eastwards and filling up somewhat. Barometer falling over south-eastern Europe.

Thursday, 3rd October.

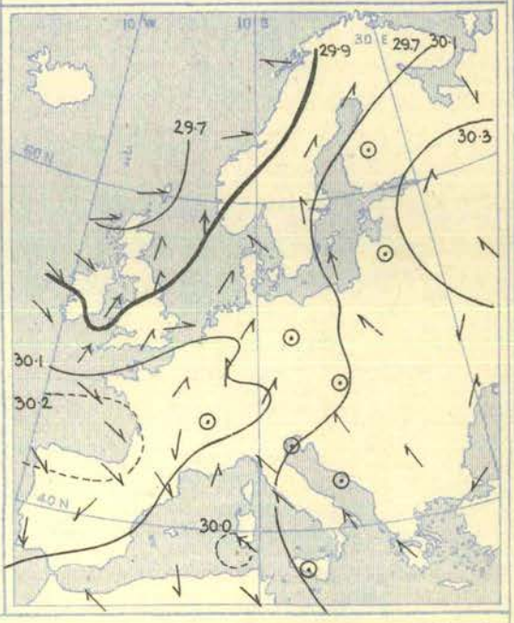
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over our Islands and the greater part of central and northern Europe, with rain on our western coasts and showers at Spurn Head and Jersey. Fine generally over southern Europe and the Mediterranean, but rainy at Nice and Biarritz. Rain over the United Kingdom, France, and Italy later. Falls rather heavy on our north-western and western coasts, and as much as 2·88 ins. at Turin and 3·07 ins. at Nice.

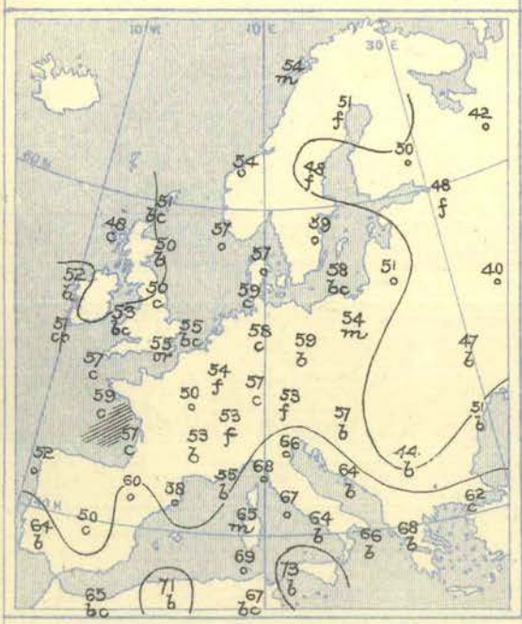
Temperature at 8 a.m. highest, 76° at Palermo, 71° at Rome, and 69° at Patras. Lowest, (1) 35° at Moscow, 39° at St. Petersburg, and 40° at Archangel; (2) 49° at Le Mans, 50° at Paris; (3) 51° at Madrid; (4) below 50° over Cumberland. Rising during day to 68° in London, 72° at Berlin, above 70° over central and southern Europe generally, to 80° at Palermo, and to 81° at Marseilles.

Wind in morning Southerly or South-Westerly over the greater part of our Islands and Finland, South-Easterly to the Eastward of the North Sea, Easterly over the Riviera and southern Russia, and variable or Northerly over Italy, France and Spain. Light in force generally, but fresh or strong on our north-west coasts. Wind veering in Ireland later, and decreasing in force. Very little change in most other regions, but Northerly wind in Italy giving place to variable airs.

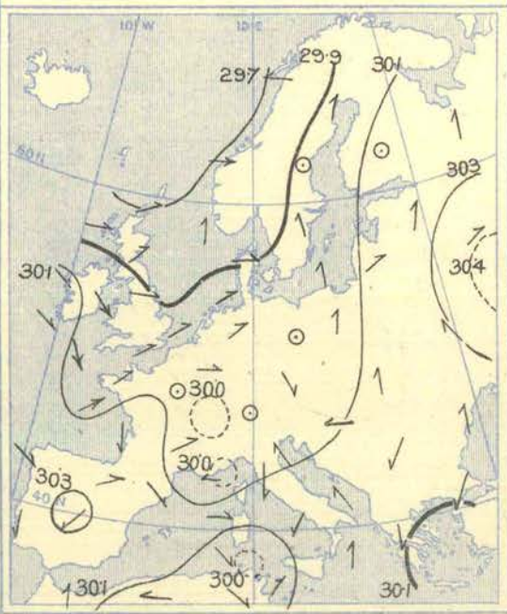
Barometer in morning highest, 30·4 ins. to 30·5 ins. over central Russia, and 30·2 ins. and upwards over the north-west of Spain. Lowest, 29·6 ins. and less off the west of Scotland, and below 30·0 ins. over nearly the whole of our Islands, the North Sea and the west of Norway, 30·0 ins. and less in a depression over Sardinia. Russian anticyclone moving south-eastwards later, and decreasing in height. Shallow "V"-shaped disturbance passing eastwards over the United Kingdom, and barometer rising again in western parts of Ireland and Scotland. No other change of importance.

Friday, 4th October.

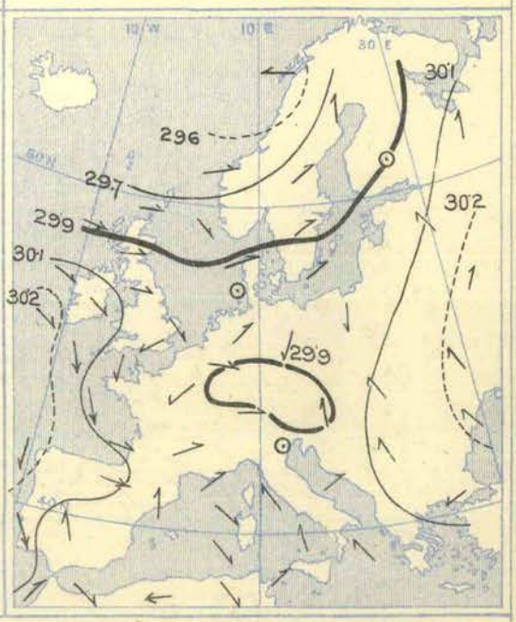
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the west and north of our Islands, over southern Italy and south-eastern Europe generally, cloudy or dull in most other regions, with rain in many parts of England and the north of France, and fog at stations in the Baltic and Gulf of Bothnia. Rain falling later in most parts of our Islands and France and in parts of Germany, Scandinavia, and Italy. As much as 1·5 ins. at Jersey, 1·4 ins. at Bodö, and 2·3 ins. at Lyons.

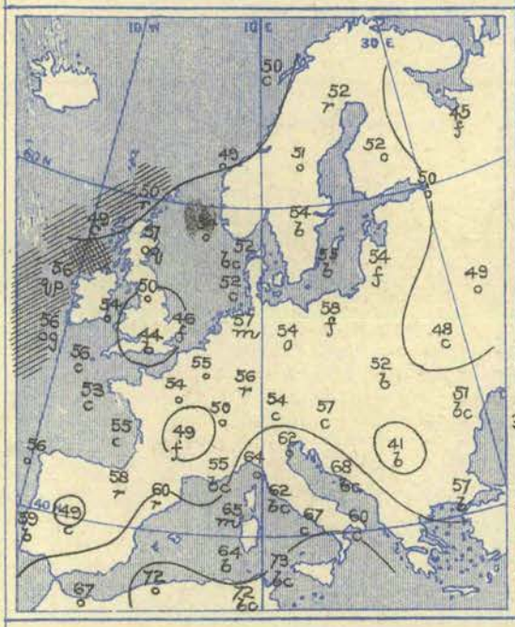
Temperature at 8 a.m., 73° at Palermo, 71° at Algiers and well above 60° at all the Mediterranean stations except Nice and Perpignan; at these stations it was only 55°. Lowest, (1) 40° at Moscow, 44° at Archangel, 45° at Nicolaieff; (2) 41° at Parsonstown and about 49° in north Scotland; (3) 50° at Paris, Limoges, and Madrid. Rising later to 63° at Dungeness, 70° at Wisby, 72° at Perpignan to 80° at Palermo, and to 82° at Tunis.

Wind in morning North-Westerly to Northerly on our western coasts, South-Westerly over Scotland, the greater part of England, and the countries to the eastward of the North Sea. Mainly from some Northerly or Easterly point over southern Europe, and light and variable in the central regions and Russia. North-Westerly winds spreading over the whole of our Islands later, and light breeze between South-East and South setting in over Russia and Italy. Moderate cyclone circulation off the north of France.

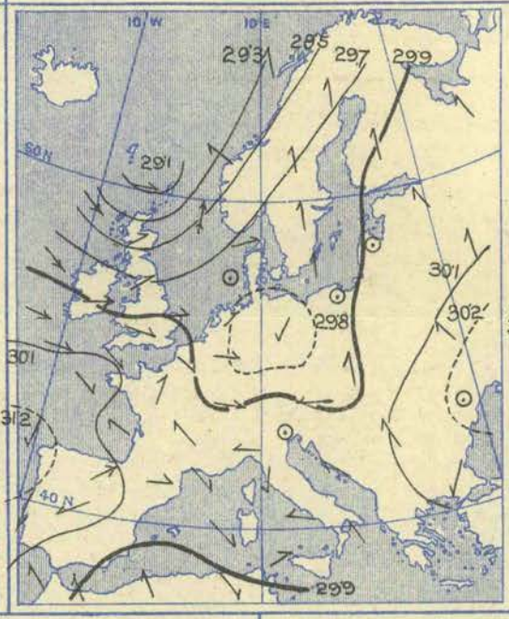
Barometer at 8 a.m. highest, 30·2 ins. to 30·4 ins. in a large anticyclone over Russia, and 30·3 ins. and more over central Spain. Lowest, 30·0 ins. to 29·7 ins. and less in an irregularly "V"-shaped depression stretching from Brittany to the west of Norway; 30·0 ins. or less in small depressions lying respectively near Cagliari, Nice, and over south-western Germany. Depression over our Islands and their neighbourhood moving eastwards and becoming much modified in form later, and the part over Brittany forming a separate system moving southwards over France. Russian anticyclone decreasing in height.

Saturday, 5th October.

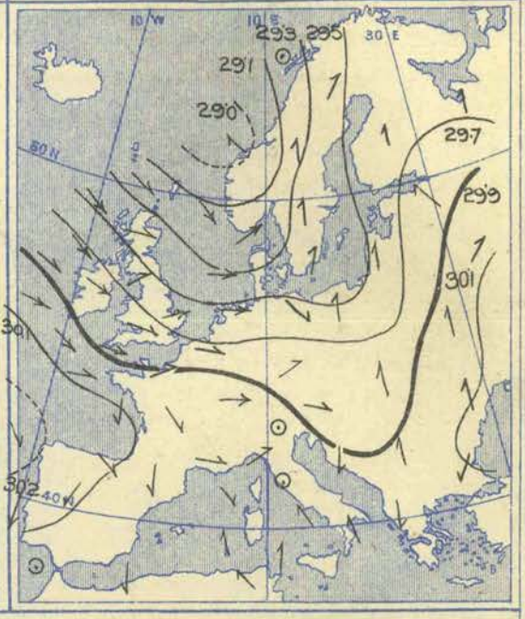
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy, squally and rainy in Ireland and Scotland, fair over the greater part of England—variable on the Continent, fine at several southern European stations, in Brittany and the south of Scandinavia, cloudy and rainy over central Europe and foggy over eastern Russia. Rain later over our Islands, and at most of the Continental stations, large amounts reported from many parts of Scandinavia, Germany and Austria.

Temperature fallen over England and on the Continent, risen in Ireland and Scotland. Morning readings highest, 73° at Palermo, 72° at Algiers and Tunis, 69° at Brindisi and 68° at Lesina, above 60° over the Mediterranean generally. Lowest, (1) 41° at Hermanstadt, 43° at Nicolaieff, 45° at Archangel, 48° at Kiev and 49° at Moscow; (2) 44° in London, 45° at Oxford and 46° at Loughborough and Yarmouth. Rising during day to 60° at a few of our own stations and to 61° at Pembroke, exceeding 60° over France and Germany, reaching 70° in many parts of Italy and touching 82° at Sfax and 86° at Tunis.

Wind South-Westerly (moderate to strong) on our eastern coasts, the North Sea and Scandinavia, North-Westerly or Westerly and strong in force over the north-western and northern parts of the Kingdom, variable over Germany, France and the Mediterranean, calm or light Southerly in Russia. Becoming North-Westerly or Westerly over our Islands later, and blowing strongly in most places.

Barometer 30·2 ins. and more over Portugal and the Bay of Biscay and also in another system over southern Russia. Lowest 29·1 ins. and less in a depression lying to the northward of of the Shetlands, and 29·8 ins. and less in a shallow area over Germany. Northern depression travelling North-Eastwards later to the west of Norway, that over Germany dispersing.

GENERAL NOTES.

At the commencement of the week an anticyclone lay over the whole of central Europe, while depressions were passing north-eastwards off our north-western and western coasts. During the next day or two the anticyclone travelled away east-south-eastwards, while another high pressure area was formed over Scandinavia. Depressions continued to arrive off our western coasts, and by Wednesday a shallow area covered the whole of the United Kingdom. This system and also the northern anticyclone moved south-eastwards or eastwards, but other disturbances continued to reach our Islands from the Atlantic, the more notable being that of Friday, which was of an irregular "V" type, and that of Saturday, which was deep and whose centre had rapidly approached the neighbourhood of the Shetlands during the preceding night. Shallow depressions appeared from time to time over the Mediterranean, but beyond causing unusually heavy rains on the south coast of France and parts of northern Italy their effect was small. The winds on the Continent were mostly light and anticyclonic, but an Easterly gale was experienced in the Riviera and Corsica on Tuesday. Over our Islands the wind was subject to frequent changes, but was mainly between South-East and South-West or West. By the end of the week, however, a strong North-Westerly current had set in on our western and northern coasts, with a considerable reduction of temperature.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 236.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	20·4	- 0·9	26	- 1	BRIGHTON	26·6	- 6·2	33	- 8
STRATHPEFFER SPA	32·6	+ 8·9	41	+11	WORTHING	29·5	?	37	?
EDINBURGH	18·7	- 2·1	24	- 3	BOGNOR	35·0*	?	44*	?
MORPETH	22·0	?	28	?	WATERGATE (Emsworth)	29·2	?	37	?
NEWCASTLE-ON-TYNE	17·8	?	22	?	WESTBOURNE (Emsworth)	32·6*	+ 1·1	41*	+ 1
OSWALDKIRK (Yorkshire)	14·8	- 8·0	18	-11	VENTNOR HOSPITAL	30·4	- 3·3	38	- 5
YORK	16·5	- 6·5	21	- 8	SOUTHPORT	17·7	?	22	?
LOWESTOFT	31·1	?	39	?	RHYL	*	?	*	?
HOLLESLEY BAY	30·4	?	38	?	COLWYN BAY		?		?
SHEFFIELD	9·3	?	12	?	ABERDOVEY	23·1*	?	29*	?
WORKSOP	11·2	-11·4	14	-15	TENBY	20·4	- 8·8	25	-12
THURCASTON (Leicestershire)	17·4	- 6·6	22	- 8	NEWQUAY				
MARGATE	29·0	0·0	36	0	TORQUAY	31·9	+ 1·7	40	+ 2
BROADSTAIRS	29·4	?	37	?	CAHIR (Duneske)	26·2*	?	33*	?
EASTBOURNE	32·5	- 0·6	41	- 1	GUERNSEY	34·3*	+1·4	43*	+ 1

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Aug. 10th, 1901	Strathpeffer Spa	—	—	—	—	—	—	—	—	—	—	—	21·7	?	20	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	28·8	?	27	?
" " " 17th "	Churchstoke	67	47	64·8	51·3	57·8	-0·1	111	0	6	0·93	+0·33	33·4	-0·8	33	0

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 41.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 12TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 242.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	31	52·1	38·9	45·3	2 below	36	− 1	9	+ 1	2183	+358	570	−15
	1. SCOTLAND, EAST	62	30	52·8	38·1	45·2	2 below	39	− 2	11	+ 2	2339	+176	668	+32
	2. ENGLAND, N.E.	61	31	55·3	40·2	47·5	2 below	46	− 1	5	+ 1	2636	+272	521	+ 4
	3. ENGLAND, EAST	65	33	56·7	41·5	48·9	1 below	50	− 4	1	− 4	2880	+141	561	− 3
	4. MIDLAND COUNTIES	68	33	57·3	42·2	49·6	1 below	53	+ 4	0	− 7	2870	+182	591	+16
	5. ENGLAND, SOUTH	65	31	58·6	45·1	51·7	0 (average)	68	+ 5	0	− 3	3033	+ 48	445	+30
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	30	53·6	39·8	46·5	2 below	41	− 5	6	+ 1	2479	+176	476	+30
	7. ENGLAND, N.W.	60	32	55·6	44·2	49·7	0 (average)	54	+ 3	0	− 3	2727	+201	453	+36
	8. ENGLAND, S.W.	65	33	58·5	46·3	52·2	1 below	71	+10	0	− 2	2978*	+204	369	+46
	9. IRELAND, NORTH	58	32	54·3	43·3	48·7	1 below	47	− 1	0	− 4	2448	+ 17	374	+ 1
	10. IRELAND, SOUTH	64	37	57·7	46·4	51·9	1 above	69	+13	0	− 3	2825	+ 68	325	+56
	—CHANNEL ISLANDS	62	49	60·3	52·5	56·3	2 above	100	+18	0	0	3381	+168	160	+38

	DISTRICTS. (See p. 242.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	11	1 less	178	+ 3	31·4	− 5·2	16	− 3	21	− 5	1156	+138	30	+ 3
	1. SCOTLAND, EAST	5	3	4 less	154	+ 4	20·8*	− 3·2	29	+ 7	38	+ 9	1320	+154	35	+ 4
	2. ENGLAND, N.E.	4	4	3 less	131	− 8	16·5	− 2·9	30	+10	39	+13	1390	+218	37	+ 6
	3. ENGLAND, EAST	3	6	0 (average)	122	−17	14·7	− 4·5	30	+ 4	40	+ 4	1611	+148	41	+ 4
	4. MIDLAND COUNTIES	4	4	2 less	122*	−12	19·9*	− 1·5	26	+ 5	35	+ 6	1356	+144	38	+ 4
	5. ENGLAND, SOUTH	3	2	5 less	113	−18	18·7	− 2·4	26	− 3	34	− 4	1648	+160	44	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	2 less	157	− 7	35·2	− 3·3	23	+ 2	31	+ 3	1402	+182	37	+ 5
	7. ENGLAND, N.W.	5	10	1 more	142	− 5	20·5*	− 5·7	23	+ 3	30	+ 4	1525*	+261	40	+ 7
	8. ENGLAND, S.W.	5	6	4 less	131*	−20	26·4*	− 3·8	15	−13	19	−17	1543	+ 55	41	+ 1
	9. IRELAND, NORTH	6	9	0 (average)	176	+ 1	27·5	+ 0·1	21	0	28	0	1188	+ 65	32	+ 2
	10. IRELAND, SOUTH	6	6	3 less	147	−11	27·6	− 2·9	24	0	32	0	1310	+ 29	35	+ 1
	— CHANNEL ISLANDS	4	3	6 less	147	− 3	22·5*	− 1·2	19	−11	25	−15	1707	+ 10	47	0

* This value has been altered owing to the receipt of further information for a preceding week.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was again rainy and unsettled generally; in Ireland and Scotland rain was of almost daily occurrence, but over the more eastern and south-eastern parts of England it was mostly confined to the earlier half of the week. Thunder and lightning were experienced in some of the eastern counties on Sunday.

Temperature was a little below the mean in most places, but only just equal to it in England S. and N.W., and was rather above it in Ireland S. and the Channel Islands. The highest of the maxima were registered towards the end of the week, and ranged from 68° in the Midland Counties to 58° in Ireland N. The lowest of the minima were recorded on the 10th, when the thermometer fell to 30° in Scotland E. and W., to 31° in Scotland N., England N.E. and S., to 32° in England N.W. and Ireland N., and to between 33° and 37° in all other districts excepting the Channel Islands, where the lowest reading was 49°.

Rainfall was rather less than the normal in most parts of the Kingdom, but just equalled it in England E. and Ireland N., and exceeded it in England N.W.

Bright Sunshine was deficient in the majority of the Southern districts, and in excess in the N. and E. The percentage of the possible duration ranged from 40 in England E., 39 in England N.E. and 38 in Scotland E., to 25 in the Channel Islands, and to 19 in England S.W.

Barometer and Wind.—At the commencement of the week a large and deep depression, which had advanced rapidly to near the Shetlands at the end of the preceding week, was travelling away very slowly over Scandinavia. In its rear a small secondary system, which was developed over the north-west of our Islands, moved quickly south-eastwards across England to Germany, its passage being attended by strong Westerly to North-Westerly winds and gales over the whole of our Islands. By Tuesday the gradients had become less steep and the winds moderate, but during the night another small but rather deep depression moved quickly south-eastwards over the northern parts of the United Kingdom, causing a renewal of strong winds and slight gales from the North-Westward. During the latter part of the week the conditions were more quiet, the high pressure previously existing over Spain moving North-Eastwards to France, and the winds in our neighbourhood becoming light or moderate from between South-West or West. By the end of the period, however, the highest pressure was situated over Scandinavia, and a "V"-shaped disturbance was advancing towards our western coasts from the Atlantic.

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II.—DATA from which the SUMMARY on page 241 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	39	50·6	41·4	45·9	− 0·7	30	2	7	0·87	− 0·11	*	*	*	*
	Stornoway	55	37	52·9	39·9	46·2	− 0·6	38	6	6	1·16	− 0·01	19·4	− 1·6	26	− 2
	Wick	57	37	51·9	39·6	45·6	− 1·7	35	7	6	1·13	+ 0·43	*	*	*	*
	Lairg Ⓢ	58	31	54·0	34·8	44·1	− 1·4	45	20	5	0·47	− 0·37	*	*	*	*
	Glencarron Ⓢ	55	34	50·7	38·3	44·3	− 2·0	32	10	6	2·04	+ 0·07	*	*	*	*
	Fort Augustus Ⓢ	58	34	52·7	37·5	44·9	− 2·5	39	13	6	0·93	+ 0·01	10·7	− 4·1	14	− 6
	Fort William Ⓢ	54	38	51·7	41·1	46·2	− 2·2	33	3	6	1·19	− 0·51	14·0	− 4·1	19	− 5
1. SCOTLAND, E.	Nairn	59	33	52·6	39·0	45·6	− 1·7	38	8	6	0·46	− 0·11	*	*	*	*
	Aberdeen	55	34	51·1	39·4	45·1	− 1·7	33	7	5	0·38	− 0·30	31·7†	+ 7·7†	42†	+10†
	Braemar Ⓢ	51	30	47·1	35·0	40·9	− 3·3	14	27	6	0·45	− 0·43	*	*	*	*
	Ochtertyre Ⓢ	61	32	54·6	37·0	45·5	− 2·2	46	14	4	0·13	− 0·79	*	*	*	*
	Leith	62	36	58·4	39·7	48·8	− 0·5	57	6	5	0·10	− 0·38	*	*	*	*
	Marchmont Ⓢ	56	30	53·0	38·3	45·4	− 1·3	39	10	4	0·23	− 0·56	28·8	+ 7·8	38	+10
2. ENGLAND, N.E.	Alnwick Castle	57	31	54·2	38·1	45·9	− 2·3	44	11	4	0·23	− 0·50	*	*	*	*
	Durham	59	31	55·0	37·7	46·1	− 2·2	47	12	4	0·31	− 0·38	31·8	+10·0	42	+13
	Shields	57	35	53·7	39·4	46·3	− 2·7	41	7	5	0·30	− 0·30	*	*	*	*
	Scarborough Ⓜ	61	?	55·4	?	?	?	?	?	4	0·29	− 0·41	31·4	?	41	?
	Spurn Head	58	42	55·4	44·6	49·8	− 1·0	55	0	2	0·40	− 0·10	*	*	*	*
	Fulbeck (Lincolnshire)	?61	?35	?58·2	?41·0	?49.4	?+ 0·8	?56	?3	4	0·60	+ 0·03	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	63	33	57·2	40·6	48·7	− 0·9	53	4	3	0·75	+ 0·11	35·6	+11·3	47	+15
	Yarmouth	56	39	54·4	42·0	48·0	− 2·8	42	0	5	1·14	+ 0·49	*	*	*	*
	Geldeston	59	35	56·0	40·5	48·0	− 2·6	48	4	3	0·82	+ 0·22	27·4	− 0·6	36	~~+10~~
	Cambridge	65	34	59·5	41·2	50·1	+ 0·1	60	2	3	0·25	− 0·28	32·4	+ 6·3	43	+ 8
	Felixstowe	60	38	56·7	43·1	49·7	− 0·9	54	0	3	0·21	?	32·3†	?†	43†	?†
	Rothamsted	59	33	56·5	41·3	48·7	− 0·5	50	2	3	0·40	− 0·28	23·7	− 3·3	31	− 4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	34	57·4	?41·0	49·0	+ 0·4	53	3	4	0·44	− 0·18	*	*	*	*
	Loughborough	62	33	58·4	41·1	49·5	− 0·1	56	3	3	0·34	− 0·26	*	*	*	*
	Colly Weston (Stamford)	68	34	59·0	42·0	50·3	+ 1·2	58	0	4	0·60	?	*	*	*	*
	Cheadle Ⓜ	58	37	55·0	42·0	48·3	+ 0·2	44	0	6	0·82	+ 0·05	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	61	40	56·6	44·1	50·2	+ 0·9	57	0	5	0·52	− 0·13	18·2	?	24	?
	Churchstoke Ⓜ	60	34	57·2	41·9	49·3	+ 1·1	52	0	6	0·52	− 0·23	20·3	− 3·2	27	− 4
	Hereford (Belmont) Ⓜ	61	33	58·3	42·8	50·3	+ 0·7	58	0	4	0·25	− 0·28	*	*	*	*
	Cirencester	59	33	55·6	41·7	48·4	− 0·2	46	1	5	0·27	− 0·43	26·4	+ 1·4	35	+ 2
	Oxford	61	38	58.6	43·4	50·8	+ 0·7	62	0	2	0·14	− 0·48	27·3	+ 1·8	36	+ 3
5. ENGLAND, S	London	65	39	58·7	43·3	50·8	− 0·3	62	0	2	0·27	− 0·33	17·5†	− 2·5†	23†	− 4†
	Swarraton (Alresford) Ⓜ	60	31	57·4	41·8	49·4	+ 0·3	53	1	3	0·11	− 0·64	*	*	*	*
	Dungeness	61	38	59·3	44·1	51·5	− 1·3	67	0	2	0·16	− 0·56	25·1	?	33	?
	Hastings (St. Leonards)	61	40	59·1	44·8	51·7	− 0·5	68	0	4	0·30	− 0·50	25·5	− 4·5	33	− 6
	Southampton	64	39	60·9	46·1	53·3	+ 1·2	79	0	3	0·07	− 0·69	24·3	− 3·7	32	− 5
	Portland Bill	63	47	58·6	50·7	54·5	+ 2·2	88	0	4	0·25	?	*	*	*	*
	Shaftesbury Ⓜ	58	40	56·5	45·0	50·6	+ 1·4	60	0	5	0·54	− 0·30	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	56	37	52·6	40·8	46·5	− 2·0	37	3	6	1·38	− 0·34	*	*	*	*
	Glasgow	54	38	52·7	41·0	46·7	− 1·0	37	3	3	0·29	− 0·55	23·8	+ 6·3	32	+ 9
	Glenlee Ⓢ	56	30	53·5	37·5	45·3	− 2·4	42	13	4	0·90	− 0·34	*	*	*	*
	Douglas (Isle of Man)	60	34	55·6	39·9	47·5	− 2·0	47	6	6	1·63	+ 0·63	22·2	− 2·8	29	− 4
7. ENGLAND, N.W.	Newton Reigny	57	32	54·1	38·1	45·9	− 1·5	44	11	3	0·49	?	30·3	?	40	?
	Stonyhurst	57	36	54·0	42·1	47·9	− 0·7	41	0	6	1·71	+ 0·56	30·6	+ 8·4	40	+11
	Blackpool Ⓜ	58	41	56·5	45·5	50·8	+ 0·8	62	0	5	0·64	− 0·30	29·0	+ 7·0	38	+ 9
	Manchester (Prestwich)	58	37	55·4	41·2	48·1	− 0·7	46	2	6	1·29	+ 0·46				
	Liverpool Obsy. (Bidston)	58	43	55·3	46·7	50·9	+ 0·3	62	0	5	1·33	+ 0·55	15·0	?	20	?
	Chester (Hawarden Bridge)	60	40	57·3	45·1	51·0	+ 0·4	63	0	5	0·49	?				
	Llandudno Ⓜ	59	44	56·6	46·9	51·6	− 0·2	67	0	6	0·85	− 0·03	16·4	− 5·3	22	− 6
	Holyhead	57	45	55·3	48·0	51·5	+ 0·3	67	0	6	1·21	+ 0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	38	58·0	45·7	51·7	+ 2·7	68	0	7	1·05	− 0·17	*	*	*	*
	Pembroke	59	45	58·7	49·7	54·1	+ 1·6	85	0	5	0·54	− 0·35	9·4	−16·4	12	−22
	Clifton	60	40	57·1	46·2	51·5	+ 0·9	67	0	6	0·44	− 0·41	*	*	*	*
	Bath	65	33	59·1	43·7	51·2	+ 0·8	64	0	6	0·26	?	22·0	?	29	?
	Arlington (N. Devon)	60	38	57·1	46·0	51·4	+ 1·1	66	0	6	1·47	+ 0·10	*	*	*	*
	Cullompton Ⓜ	63	36	59·0	44·9	51·7	+ 1·9	68	0	4	0·36	− 0·52	9·4	−14·8	12	−20
	Falmouth	63	48	58·7	50·3	54·4	+ 1·6	87	0	3	0·33	− 0·82	22·6	− 6·1	29	− 9
	Plymouth	61	41	60·2	44·0	51·9	− 0·1	69	0	5	0·43	− 0·42	10·2	−16·8	13	−12
9. IRELAND, N.	Malin Head	55	43	52·1	45·4	48·7	− 1·1	47	0	5	1·00	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	57	32	52·9	41·1	46·8	− 0·6	37	3	7	0·77	− 0·09	*	*	*	*
	Blacksod Point	57	46	55·9	48·3	52·0	+ 0·9	70	0	7	1·29	?	*	*	*	*
	Markree Castle	58	33	55·0	40·3	47·4	− 1·0	45	5	6	1·22	+ 0·27	17·2	− 4·1	23	− 5
	Armagh	58	37	55·4	41·4	48·2	− 0·2	46	2	4	0·48	− 0·20	25·0	+ 4·0	33	+ 5
	Donaghadee	58	38	54·7	43·4	48·9	− 0·8	48	0	5	0·42	− 0·28	*	*	*	*
10. IRELAND, S	Dublin	62	39	56·7	43·2	49·8	− 0·8	55	0	6	0·47	− 0·18	29·8	+ 2·8	39	+ 4
	Parsonstown	60	37	56·7	43·1	49·7	+ 1·1	54	0	7	0·47	− 0·23	21·8	− 2·2	29	− 3
	Kilkenny	63	38	57·9	43·0	50·2	+ 0·6	57	0	5	0·47	− 0·23	*	*	*	*
	Roches Point	63	45	58·4	48·4	53·3	+ 1·3	79	0	4	0·54	− 0·38	*	*	*	*
	Valencia	59	46	58·0	50·4	54·1	+ 1·8	85	0	7	0·20	− 1·02	22·2	− 3·0	29	− 4
	Killarney	64	40	59·5	47·5	53·3	+ 2·3	79	0	5	0·64	− 0·56	*	*	*	*
	Foynes	60	43	56·7	49·4	52·9	+ 3·0	76	0	5	1·17	+ 0·34	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	52	59·2	53·1	56·4	+ 1·8	101	0	4	0·11	− 0·71	17·5	?	23	?
	Jersey	62	49	60·7	51·9	56·2	+ 1·1	99	0	3	0·44	− 0·54	18·9	−13·1	25	−17

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

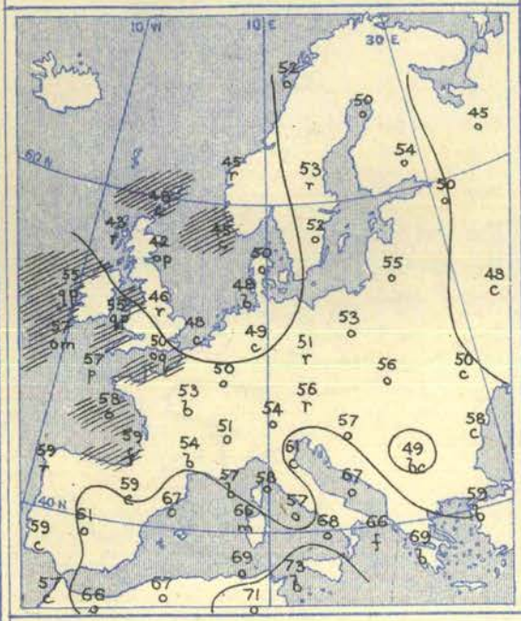
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 6th October.

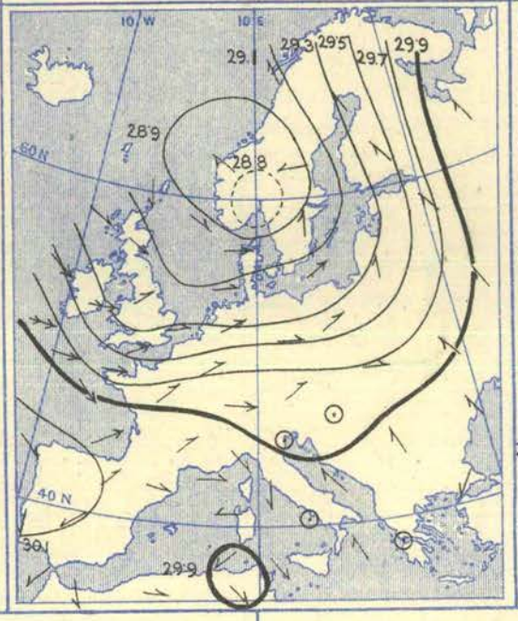
Temperature and Weather.

8 a.m.

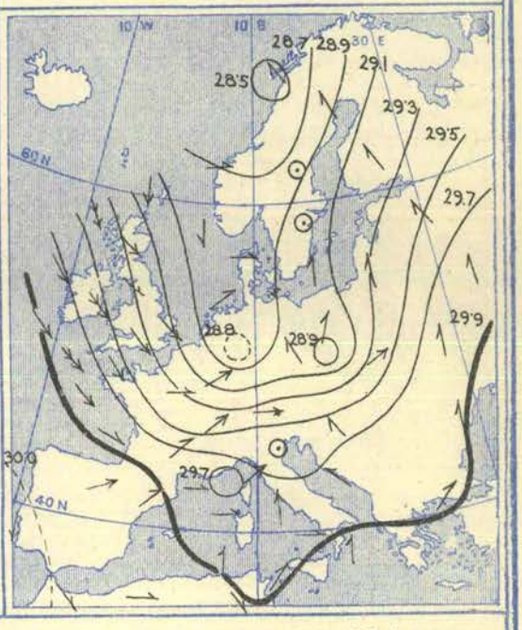


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine at most stations in southern Europe, but dull in nearly all other places, with rain or passing showers over the United Kingdom, the Netherlands and Germany. Rain later in most places; amounts large over Germany, and at Christiansund, but not heavy over our Islands as a whole except at Darwen, where the fall amounted to 1·17 ins., and at Yarmouth to 0·86 ins. Lightning seen at some of our southern stations, and thunder and lightning occurred at Clacton-on-Sea during the evening.

Temperature fallen in Ireland and Scotland, risen at most of the Continental stations. Morning readings highest, 77° at Sfax, 73° at Palermo, 71° at La Calle, 69° at Patras, and 68° at Naples. Lowest, 42° in the north-east of Scotland, 43° at Stornoway, 44° at Newton Reigny, and 45° at Christiansund, Skudesnaes and Sumburgh Head. Rising to slightly above 60° later at many of the southern English stations; exceeding 70° over Italy and the south of France, and reaching 79° at Palermo. Higher maxima recorded over Algeria; temperature rising to 82° at Sfax and 86° at Tunis

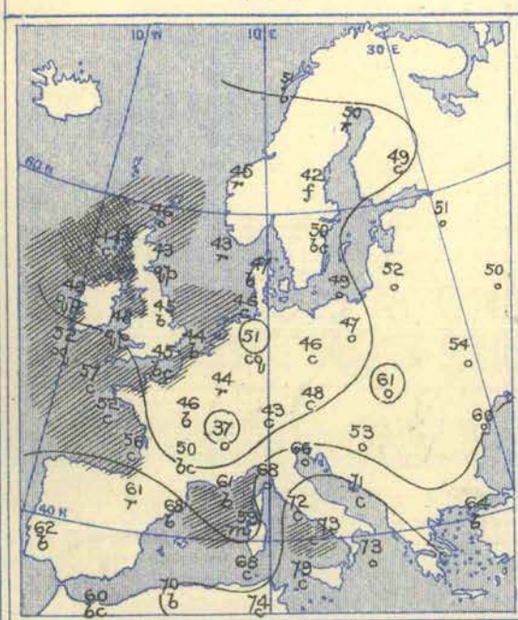
Wind North-Westerly over the United Kingdom, France and the North Sea; blowing strongly in most places, and with the force of a gale at some exposed stations. A complete cyclonic circulation shown over Scandinavia and the Balkan Provinces, but chiefly Westerly and Southerly elsewhere. Becoming more Northerly over our Islands later, and blowing a fresh gale in many places, and a strong gale over the south-eastern districts of England.

Barometer highest, 30·1 ins. and more over Spain and Portugal, and 30·0 ins. and more over Greece. Lowest, 28·8 ins. and less in a large depression over Scandinavia, and 29·9 ins. and less in a shallow system near Tunis. A well-marked subsidiary disturbance travelling across our Islands later in a south-easterly direction, and gradients becoming steep all over our Islands, France and the North Sea. Scandinavian depression passing away to the northward, and barometer rising quickly on our northern and western coasts.

Monday, 7th October.

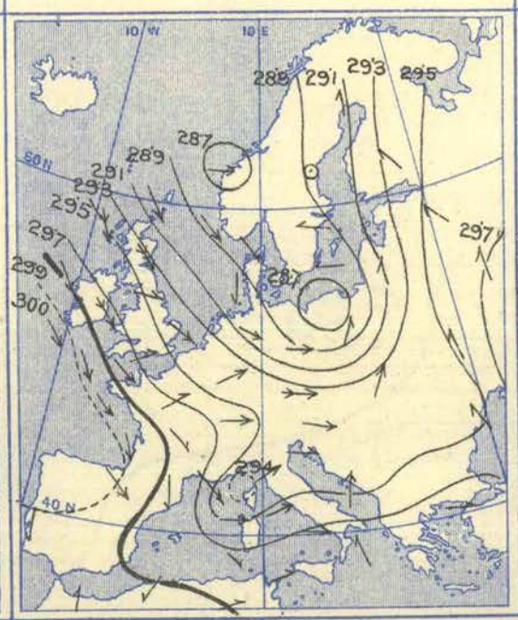
Temperature and Weather.

8 a.m.

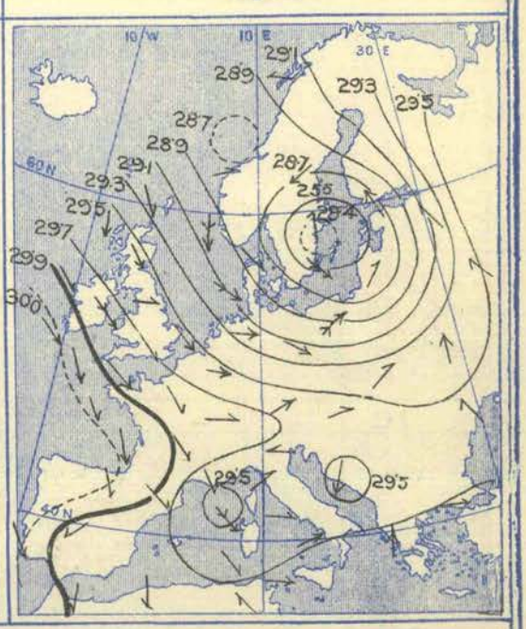


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over our Islands and France, but cloudy or overcast in most other places, with rain over the Netherlands, some parts of Germany, and the Balkan Provinces. Rain also falling at Biarritz and Florence. Rain later in the west and north of our Islands and over Germany, and a large quantity in Sweden. A heavy amount also reported from The Hague, as much as 2·48 ins. being measured.

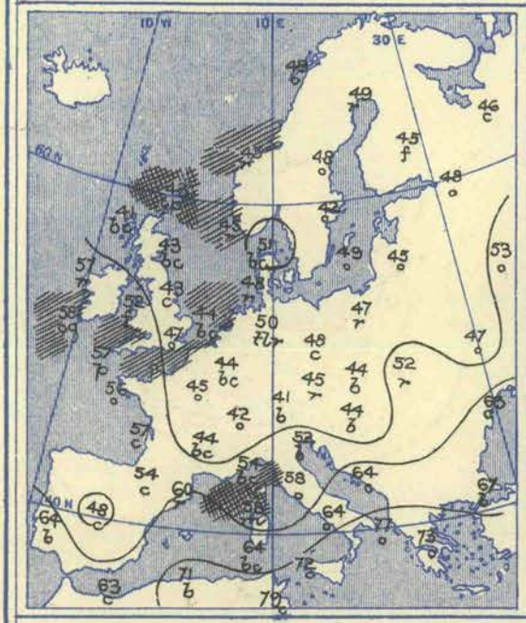
Temperature fallen in nearly all places, but risen somewhat over southern Europe. Morning readings highest, 79° at Palermo, 75° at Sfax, 74° at La Calle, and 73° at Naples and Brindisi; above 60° over southern Europe generally. Lowest, 39° at Karlstad, 42° at Hernösand, 43° at Skudesnaes, and 45° at Christiansund. Lowest in our Islands, 42° at Newton Reigny, 43° at Loughborough, and 43° in the north-east of Scotland. Not touching 60° at any of our stations later, but rising to above 60° in many parts of France, and reaching 73° at Nice. Still higher readings recorded over Italy and Algeria; thermometer rising to 83° at Palermo, 84° at Tunis, and 86° at Sfax.

Wind strong from North-West over the United Kingdom and France, and blowing a gale in Scotland. A complete cyclonic circulation of strong winds over Germany and the south of Scandinavia, and another over Italy and the Gulf of Genoa. Light from South in Russia. Moderating over our Islands later, but blowing with the force of a gale on the eastern shores of the North Sea, over Sweden and the Balkan Provinces, and continuing to blow strongly at many southern European stations.

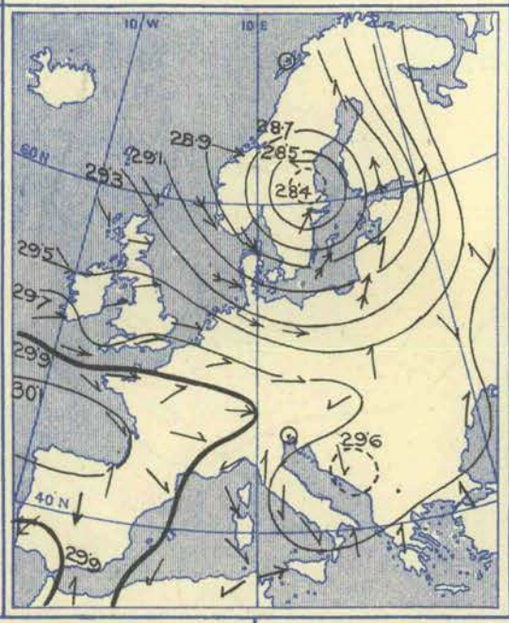
Barometer highest, 30·2 ins. and more off our south-west coasts, the Bay of Biscay and Portugal. Lowest, 28·7 ins. and less in the centre of two depressions, one lying off the west of Norway, and the other over Germany and the south of Scandinavia, and 29·4 ins. and less over the Gulf of Genoa. Gradients steep over Europe as a whole. German depression becoming deeper and moving northwards later, that off the west of Norway dispersing. Barometer inclined to fall again on our western coasts.

Tuesday, 8th October.

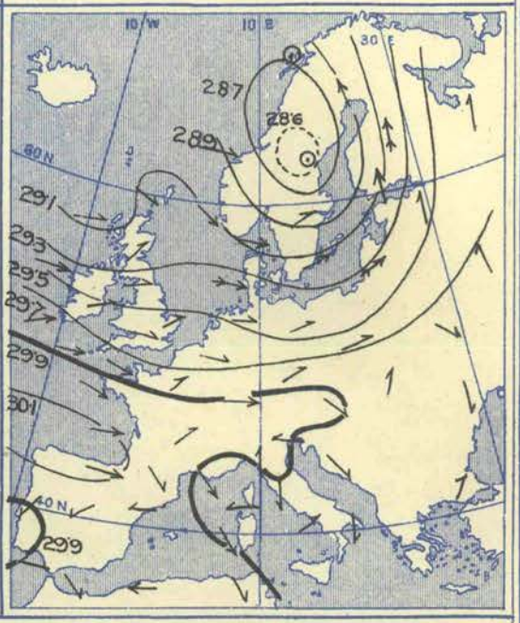
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very variable—fine and bright over southern Europe as a whole, and in Scotland; dull and rainy over northern Germany, northern Europe, and at many of the stations in the west and central parts of our Islands, and in Belgium. Rain later over almost every part of north-western Europe but not in large quantity, though considerable quantities fell at some places on the eastern shores of the North Sea.

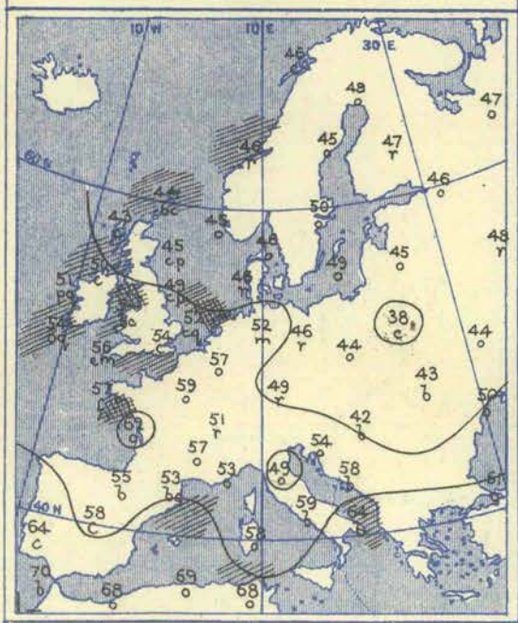
Temperature risen greatly in Ireland and the western parts of England, changed variably on the Continent. Morning readings highest, 79° at Sfax, 77° at Brindisi, 73° at Athens, 71° at Algiers; but below 60° all over our Islands. Lowest, 40° at Wick, 41° at Stornoway, 45° to 51° over northern Europe, 43° at Aberdeen and Shields, and 47° at Loughborough (Leicestershire). Touching 60° later at a few of our own stations, 61° at Brest, 66° at Nice, and 74° at Leghorn.

Wind (1) strong to a gale in force and cyclonic over the Baltic and eastern shores of the North Sea, moderate from North-Westward in Scotland, and from Westward in Ireland, strong from Westward over the south of England, light and variable (mainly anticyclonic) over France. Decreasing in force later over Scandinavia, but blowing hard at Bath in the evening.

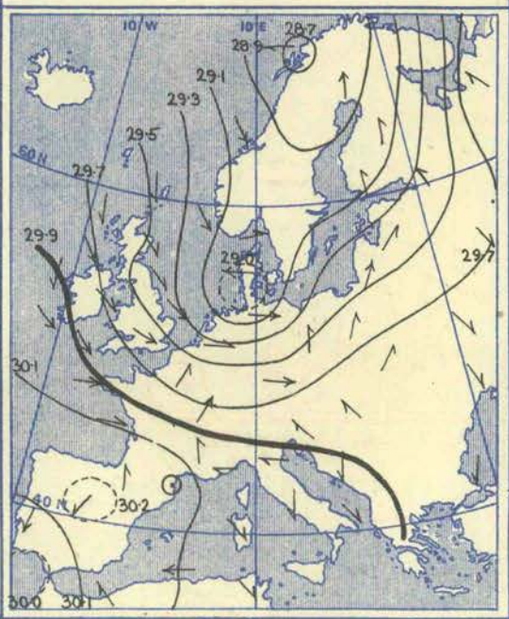
Barometer highest, 30·1 ins. and more to 30·0 ins. over the Bay of Biscay, the north of Spain, and south-west of France. Lowest, about 28·4 ins. in a depression, the centre of which lay near Stockholm, and below 29·6 in a secondary over Wales. Swedish depression moving Northwards later, but beginning to fall fast at Stornoway. A new depression advancing from North-Westward, subsequently to Scotland and the North Sea.

Wednesday, 9th October.

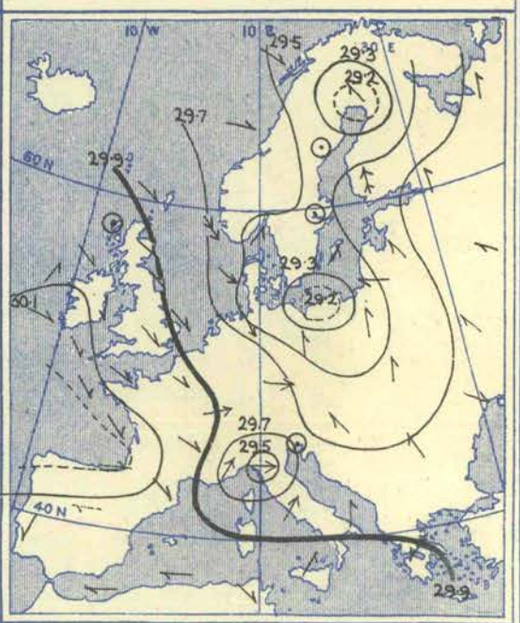
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull on the Continent generally, with rain in many places, squally, changeable in our Islands, with showers at some of our western and northern stations. Rain later over the western and northern parts of the Kingdom, and also over central and northern Europe, but falls not large except over Austria and Germany.

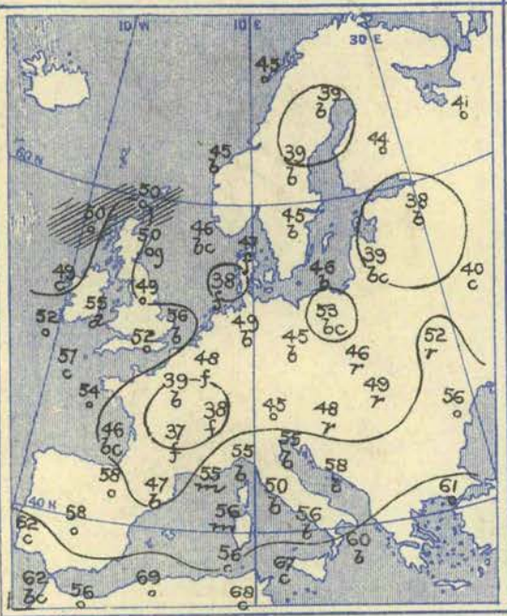
Temperature risen except in Ireland. Morning readings highest, 73° at Sfax, 70° at San Fernando, 69° at Algiers, 68° at Nemours and La Calle, and 67° at Oran. Lowest, 38° at Warsaw, 42° at Cracovie, Buda-Pesth and Memel, and 43° at Lemberg. Lowest in our Islands, 43° at Stornoway, and 44° at Sumburgh Head. Rising later to 61° at Jersey and Dungeness, and 60° at Leith and Oxford, exceeding 60° over the greater part of France, rising to above 70° at the southern European stations, and reaching 77° at Palermo and Aumale, and 82° at Biskra. Decided frost occurred on the grass over central England at night.

Wind Northerly and North-Westerly over the whole of our Islands, and to the Eastward of the North Sea, and strong to a gale in force in most places. Fresh from the South-Westward and Southward over Germany, the Baltic and western Russia, variable over southern Europe generally. Gales and strong winds subsiding over our Islands later, but still blowing strong at many Continental stations. New cyclonic circulation of strong winds appearing over Italy.

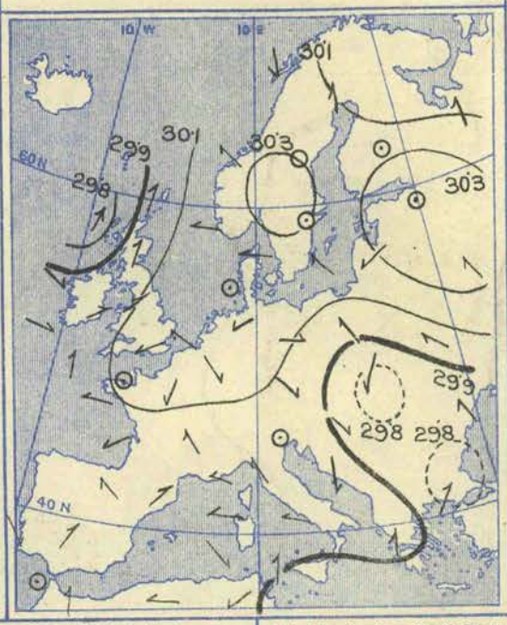
Barometer highest, 30·2 ins. and more in an anticyclone over central Spain. Lowest, 28·7 ins. and less over the north of Norway, and 29·0 ins. and less over Holstein. Rising over our Islands and Scandinavia; falling on the Continent. Both depressions moving Eastwards later, and filling up, but a new and rather deep disturbance appearing over northern Italy and the Gulf of Genoa.

Saturday, 12th October.

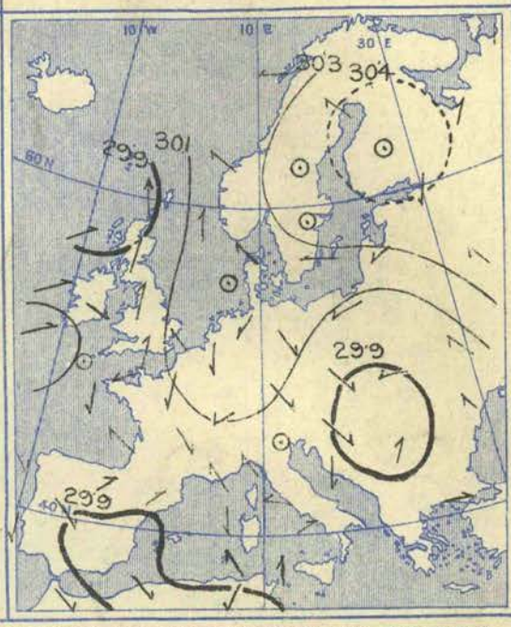
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over our Islands generally, with slight rain in isolated parts of England and Ireland. Fine in the western, northern and southern parts of the Continent generally, but foggy over Belgium, Denmark and North Germany. Dull in Austria and the southern parts of Russia and Germany, with rain in many places. Rain falling later in the west and north of our Islands, but amount mostly slight; a considerable quantity (1·1 in.) reported at Algiers.

Temperature risen in all but the extreme southern parts of the United Kingdom; fallen in most other countries. Morning readings highest, 69° at Algiers, 68° at La Calle and 67° at Palermo; above 60° on the coasts of the Spanish Peninsula, and above 55° on some parts of the English and Welsh coasts. Lowest, (1) 24° at Le Mans and 37° at Lyons; (2) 38° at St. Petersburg and 39° at Uleaborg, Hernösand, Helsingfors and Riga. Rising during day to 60° and upwards over the central and southern parts of England and to 65° in London; exceeding 65° over southern Europe generally and exceeding 70° over central Spain and at some of the Mediterranean stations.

Wind Southerly or South-Westerly in all the more western and northern parts of the United Kingdom, and strong in force at Stornoway; South-Easterly or Easterly in the west of Norway. Light from the Eastward (South-East to North-East) over France and the central and south-eastern parts of England. Calm or variable over Sweden and northern Russia; South-Easterly over central and southern Russia; Northerly or North-Westerly over Germany, Austria, and southern Italy; variable over the Spanish Peninsula. Subsequently veering to the Westward on our own western coasts; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the central parts both of Sweden and Russia, and 30·1 ins. and upwards in an anticyclone extending from northern Europe over the North Sea, the Netherlands, and the greater part of England. Lowest, 29·8 ins. and less in three depressions, one lying off the north-west of Scotland, another over eastern Austria, and the third over European Turkey. Depression off the Scotch coasts, subsequently moving away to the North-Eastward; no material change occurring elsewhere.

GENERAL NOTES.

In the course of this week pressure was at first highest over the Bay of Biscay and at our own south-western stations, and depressions were moving from north-west to south-east over Scandinavia, and subsequently over the North Sea, while secondaries moved across the British Islands from a more westerly direction. Then came a change. The barometer rose, the anticyclone in the south-west became the dominant system, and though very complex on Friday, subsequently became more simple, and moved steadily to the north-eastward. At the close of the week the centre was situated over northern Europe, and a ridge extended thence to the North Sea and north of France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 242.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	21·5	+ 2·0	28	+ 1	BRIGHTON	25·1	- 5·1	33	- 7
STRATHPEFFER SPA	14·5	- 7·7	20	-10	WORTHING	26·0	?	34	?
EDINBURGH	25·1	+ 5·1	33	+ 5	BOGNOR	30·3*	?	39*	?
MORPETH	30·3	?	40	?	WATERGATE (Emsworth)	25·5	?	33	?
NEWCASTLE-ON-TYNE	22·8	?	30	?	WESTBOURNE (Emsworth)	25·5*	- 3·3	33*	- 5
OSWALDKIRK (Yorkshire)	32·4	+11·5	43	+15	VENTNOR HOSPITAL	27·5	- 3·5	36	- 5
YORK	28·2	+ 7·2	37	+ 9	BOURNEMOUTH	24·9	?	32	?
LOWESTOFT	31·5	?	41	?	SOUTHPORT	21·9	?	29	?
HOLLESLEY BAY	28·3	?	37	?	RHYL	24·8*	?	33*	?
SHEFFIELD	28·6	?	38	?	COLWYN BAY	17·5	?	23	?
WORKSOP	33·6	+12·9	44	+17	ABERDOVEY	19·6*	?	26*	?
THURCASTON (Leicestershire)	30·1	+ 8·1	40	+11	TENBY	15·3	-11·3	20	-15
MARGATE	32·0	+ 5·4	42	+ 7	NEWQUAY	7·2	-20·8	9	-27
BROADSTAIRS	27·3	?	35	?	TORQUAY	23·4	- 4·1	30	- 6
EASTBOURNE	24·7	- 6·0	32	- 7	CAHIR (Duneske)	23·6*	?	31*	?
					GUERNSEY	20·9*	- 8·8	27*	-13

* The values at Rognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.
The values at Bournemouth, accidentally omitted for the week ending October 5th, should read :—35·2 | ? | 44 | ?

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending July 27th, 1901	Rhyl	—	—	—	—	—	—	—	—	—	—	—	35·3	?	32	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	24·5	?	23	?
" " " " "	Torquay	—	—	—	—	—	—	—	—	—	—	—	31·5	-17·3	29	-16
" " Aug. 3rd "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	72·6	—	63	—
" " " " "	Ventnor	—	—	—	—	—	—	—	—	—	—	—	60·0	+12·5	57	+12

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W. ; OR OLIVER AND BOYD, EDINBURGH ; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 42.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 19TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 248.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	28	52·8	40·3	46·4	1 above	37	+ 4	3	- 6	2220	+362	573	- 21
	1. SCOTLAND, EAST	58	31	52·2	39·6	45·7	0 (average)	36	0	7	- 4	2375	+176	675	+28
	2. ENGLAND, N.E.	59	34	55·0	42·5	48·5	1 above	46	+ 4	0	- 6	2682	+276	521	- 2
	3. ENGLAND, EAST	62	33	57·6	48·1	51·0	2 above	63	+16	0	- 7	2943	+157	561	-10
	4. MIDLAND COUNTIES	60	32	56·2	42·1	49·0	2 above	49	+ 5	0	- 9	2919	+187	591	+ 7
	5. ENGLAND, SOUTH	63	35	58·2	47·2	52·5	3 above	74	+17	0	- 4	3107	+ 65	445	+26
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	28	51·2	40·7	45·8	1 below	32	- 9	4	0	2511	+167	480	+30
	7. ENGLAND, N.W.	59	37	54·7	44·4	49·4	1 above	52	+ 6	0	- 4	2779	+207	453	+32
	8. ENGLAND, S.W.	61	37	57·6	45·7	51·5	2 above	67	+12	0	- 3	3045	+216	369	+43
	9. IRELAND, NORTH	56	27	52·4	39·0	45·5	2 below	37	- 6	8	+ 3	2485	+ 11	382	+ 4
	10. IRELAND, SOUTH	60	29	54·2	40·2	47·0	2 below	43	- 8	5	+ 1	2868	+ 60	330	+57
	—CHANNEL ISLANDS	62	44	59·4	49·8	54·5	1 above	88	+11	0	0	3469	+179	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 248.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	0 (average)	183	+ 3	32·6	- 5·2	18	0	26	0	1174	+138	30	+ 3
	1. SCOTLAND, EAST	5	10	3 more	159	+ 4	21·8	- 2·9	19	- 1	26	- 2	1339	+154	35	+ 4
	2. ENGLAND, N.E.	4	4	3 less	135	- 8	16·9	- 3·1	15	- 3	21	- 3	1405	+216	36	+ 5
	3. ENGLAND, EAST	4	6	0 (average)	126	-17	15·3	- 4·5	22	- 2	31	- 2	1633	+146	41	+ 4
	4. MIDLAND COUNTIES	4	5	2 less	126	-12	20·4	- 1·7	20	0	28	0	1376	+144	37	+ 3
	5. ENGLAND, SOUTH	5	10	2 more	118	-16	19·7	- 2·2	21	- 5	29	- 7	1669	+155	43	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	22	10 more	163	- 5	37·4	- 2·3	20	0	28	0	1422	+183	37	+ 5
	7. ENGLAND, N.W.	4	8	2 less	146	- 5	21·3	- 5·9	22	0	30	0	1547	+261	40	+ 7
	8. ENGLAND, S.W.	4	6	4 less	135	-21	27·0	- 4·2	31	+ 7	43	+11	1574	+ 62	42	+ 2
	9. IRELAND, NORTH	6	9	0 (average)	182	+ 3	28·4	+ 0·1	34	+14	47	+19	1222	+ 79	32	+ 2
	10. IRELAND, SOUTH	6	11	1 more	153	- 9	28·7	- 2·7	33	+ 9	45	+14	1343	+ 39	35	+ 1
	— CHANNEL ISLANDS	6	12	3 more	153	- 2	23·7	- 0·9	32	+ 2	44	+ 2	1739	+ 13	47	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was fair over the greater part of the Kingdom at the commencement of the week, but by Monday rainy conditions had appeared in the west, and during the remainder of the period the weather was changeable—overcast skies and rain alternating with some clear, bright intervals.

Temperature was rather below the mean in Ireland and the west of Scotland, and just equal to it in Scotland E. ; elsewhere there was a slight excess. The highest of the maxima were recorded on somewhat irregular dates, and ranged from 63° in England S. to 55° in Scotland W. The lowest of the minima were registered, as a rule, during the middle of the period ; they ranged from 27° in Ireland N., 28° in Scotland W., 29° in Ireland S., and 31° in Scotland N. and E., to 37° in England N.W. and S.W., and to 44° in the Channel Islands.

Rainfall was more than the mean in several districts, but only just equal to it in Scotland N., England E. and Ireland N., and less over northern, central, and south-western England. In Scotland W. the excess was large.

Bright Sunshine exceeded the mean over Ireland, the S.W. of England, and in the Channel Islands, but was only just equal to, or rather less than, the mean elsewhere. The percentage of the possible duration ranged from 47 in Ireland N., 45 in Ireland S., 44 in the Channel Islands, and 43 in England S.W., to 26 in Scotland N. and E., and to 21 in England N.E.

Barometer and Wind.—During the whole of this period the barometer was highest over Scandinavia, while the United Kingdom was visited by depressions from the Atlantic. These systems were at first both shallow and small, and (excepting on the night of the 13th, when there was a Southerly gale in the north-west) produced light and variable winds. During the latter part of the week a larger and deeper disturbance, which was at first "V"-shaped, spread over our Islands and finally moved away Northwards. This system was accompanied by Southerly winds, veering towards West, over the whole of the United Kingdom. The Southerly current blew with considerable force over Great Britain on the 18th, but the Westerly wind experienced on Saturday was only moderate in strength.

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II.—DATA from which the SUMMARY on page 247 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	42	53·0	44·9	48·8	+ 3·2	48	0	5	1·33	+ 0·33	*	*	*	*
	Stornoway	56	34	54·1	39·1	46·4	+ 1·1	43	8	6	1·42	+ 0·22	21·4	+ 1·9	31	+ 3
	Wick	57	35	54·0	41·6	47·6	+ 1·7	41	1	4	0·81	+ 0·11	*	*	*	*
	Lairg Ⓢ	56	28	52·7	36·3	44·3	+ 0·4	40	16	5	0·53	- 0·35	*	*	*	*
	Glencarron Ⓢ												*	*	*	*
	Fort Augustus Ⓢ	56	31	52·5	39·0	45·6	- 0·8	38	8	6	0·66	- 0·27	15·2	+ 1·6	21	+ 2
	Fort William Ⓢ	54	33	50·6	40·9	45·7	- 1·3	31	3	5	1·69	- 0·05	11·9	- 5·3	17	- 7
1. SCOTLAND, E.	Nairn	57	31	53·0	37·7	45·1	- 0·7	40	12	4	0·34	- 0·21	*	*	*	*
	Aberdeen	55	34	53·3	42·7	47·8	+ 1·1	41	0	4	1·10	+ 0·42	22·4	+ 0·1	32	+ 1
	Braemar Ⓢ	50	31	47·0	36·4	41·5	- 1·4	14	22	6	1·49	+ 0·59	*	*	*	*
	Ochtertyre Ⓢ	56	33	52·0	38·0	44·8	- 1·4	36	11	6	2·33	+ 1·38	*	*	*	*
	Leith	58	33	54·0	41·6	47·6	- 0·2	41	1	4	0·26	- 0·21	*	*	*	*
	Marchmont Ⓢ	56	37	54·0	41·4	47·5	+ 2·1	41	2	5	0·37	- 0·43	18·8	- 0·4	26	- 1
2. ENGLAND, N.E.	Alnwick Castle	55	35	52·8	40·7	46·6	- 0·4	38	4	2	0·22	- 0·52	*	*	*	*
	Durham	58	34	53·9	40·5	47·0	+ 0·3	41	4	4	0·30	- 0·40	18·3	- 1·7	25	- 3
	Shields	56	41	53·7	44·4	48·9	+ 1·3	48	0	4	0·22	- 0·40	*	*	*	*
	Scarborough Ⓜ	58	37	56·0	41·5	48·5	+ 0·2	48	1	5	0·43	- 0·29	14·1	?	20	?
	Spurn Head	59	40	57·7	46·4	51·9	+ 2·5	69	0	3	0·54	+ 0·01	*	*	*	*
	Fulbeck (Lincolnshire)	59	34	55·6	41·2	48·2	+ 1·1	47	2	4	0·43	- 0·12	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	60	33	57·3	41·0	48·9	+ 0·8	53	3	4	1·08	+ 0·45	25·2	+ 3·2	35	+ 5
	Yarmouth	59	45	57·0	48·7	52·7	+ 3·4	75	0	4	0·43	- 0·23	*	*	*	*
	Geldeston	61	35	58·3	43·8	50·8	+ 1·7	62	0	4	0·42	- 0·18	18·1	- 7·4	25	-10
	Cambridge	62	39	58·9	43·1	50·8	+ 2·4	62	0	4	0·40	- 0·14	25·7	+ 1·7	35	+ 2
	Felixstowe	59	44	57·5	48·6	52·9	+ 3·9	76	0	4	0·65	?	24·4†	?†	33†	?†
	Rothamsted	59	39	56·8	43·4	49·9	+ 2·3	55	0	5	0·70	+ 0·02	19·4	- 5·5	27	- 7
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	33	56·9	39·7	48·1	+ 1·0	52	6	3	0·44	- 0·18	*	*	*	*
	Loughborough	60	32	57·7	41·0	49·1	+ 1·0	54	3	3	0·49	- 0·13	*	*	*	*
	Colly Weston (Stamford)	60	35	56·9	41·6	49·0	+ 1·5	51	1	5	0·66	?	*	*	*	*
	Cheadle Ⓜ	55	38	54·0	42·5	48·1	+ 1·7	43	0	5	0·47	- 0·30	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	59	38	56·4	43·1	49·6	+ 2·0	53	0	3	0·37	- 0·28	17·3	?	24	?
	Churchstoke Ⓜ	57	36	54·8	40·9	47·6	+ 1·0	44	3	3	0·56	- 0·24	29·2	+ 8·2	40	+11
	Hereford (Belmont) Ⓜ	59	38	55·9	41·9	48·7	+ 0·9	47	0	2	0·32	- 0·31	*	*	*	*
	Cirencester	57	38	56·9	42·9	49·3	+ 2·2	51	0	4	0·54	- 0·18	23·1	+ 0·1	32	0
	Oxford	59	42	57·4	45·4	51·2	+ 2·6	64	0	4	0·51	- 0·11	18·1	- 5·1	25	- 7
5. ENGLAND, S	London	62	40	59·4	44·9	51·9	+ 2·4	69	0	5	1·32	+ 0·72	12·0†	- 5·8†	16†	- 8†
	Swarraton (Alresford) Ⓜ	60	35	56·7	43·0	49·7	+ 2·1	54	0	5	1·17	+ 0·39	*	*	*	*
	Dungeness	63	40	59·6	48·1	53·7	+ 2·6	82	0	4	0·26	- 0·48	20·8	?	28	?
	Hastings (St. Leonards)	61	44	59·2	49·4	54·2	+ 3·3	85	0	5	1·22	+ 0·37	20·2	- 7·4	27	-10
	Southampton	61	44	59·1	47·7	53·2	+ 2·6	78	0	5	1·27	+ 0·49	23·9	- 2·1	32	- 4
	Portland Bill	59	46	57·9	50·9	54·3	+ 3·5	86	0	5	0·77	?	*	*	*	*
	Shaftesbury Ⓜ	58	44	55·4	46·1	50·6	+ 3·0	60	0	4	1·01	+ 0·16	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	53	36	51·3	42·2	46·6	- 0·8	32	0	6	2·23	+ 0·58	*	*	*	*
	Glasgow	55	36	51·4	41·9	46·5	+ 0·2	32	0	5	1·44	+ 0·60	13·2	- 2·6	19	- 3
	Glenlee Ⓢ	54	28	51·0	37·9	44·3	- 2·2	33	11	7	3·13	+ 1·85	*	*	*	*
	Douglas (Isle of Man)	?	?	?	?	?	?	?	?	5	2·04	+ 1·04	26·1	+ 2·7	36	+ 4
7. ENGLAND, N.W.	Newton Reigny	57	39	54·7	41·7	48·0	+ 1·9	43	1	5	1·04	?	24·5	?	34	?
	Stonyhurst	56	38	53·0	43·0	47·9	+ 0·8	41	0	3	0·54	- 0·60	11·4	- 8·6	16	-12
	Blackpool Ⓜ	59	41	56·4	44·7	50·4	+ 1·7	59	0	4	0·76	- 0·19	21·8	+ 1·8	30	+ 2
	Manchester (Prestwich)	57	37	55·6	42·5	48·9	+ 1·5	48	0	3	0·41	- 0·39	12·4	?	17	
	Liverpool Obsy. (Bidston)	55	41	53·4	44·6	48·9	0·0	48	0	3	0·35	- 0·44	23·7	?	32	?
	Chester	58	40	55·4	44·4	49·7	+ 0·5	54	0	2	0·16	?	*	*	*	*
	Llandudno Ⓜ	58	47	55·1	47·7	51·3	+ 1·0	65	0	6	0·94	+ 0·04	26·9	+ 7·2	37	+10
	Holyhead	55	46	53·7	46·4	49·9	- 0·6	55	0	6	1·82	+ 0·84	*	*	*	*
8. ENGLAND, S W.	Llandovery	58	38	56·3	43·0	49·5	+ 1·1	53	0	6	0·75	- 0·51	*	*	*	*
	Pembroke	60	48	57·1	49·4	53·1	+ 1·8	78	0	6	0·90	- 0·03	30·0	+ 6·5	41	+ 9
	Clifton	58	41	55·7	45·4	50·4	+ 1·4	59	0	4	0·28	- 0·58	*	*	*	*
	Bath	60	38	58·6	43·1	50·6	+ 1·7	60	0	4	0·51	?	24·9	?	34	?
	Arlington (N. Devon)	59	40	57·0	44·6	50·6	+ 1·7	60	0	3	0·95	- 0·45	*	*	*	*
	Cullompton Ⓜ	60	37	58·7	43·5	50·9	+ 2·7	62	0	5	0·56	- 0·32	26·6	+ 4·6	36	+ 6
	Falmouth	59	45	57·5	48·7	53·0	+ 1·4	77	0	5	0·63	- 0·56	39·2	+14·4	53	+17
	Plymouth	61	38	59·8	48·2	53·8	+ 3·0	83	0	2	0·53	- 0·32	34·7	+10·2	47	+14
9. IRELAND, N.	Malin Head	54	38	51·3	41·9	46·5	- 2·3	32	0	6	0·66	?	*	*	*	*
	Edenfel (Omagh)	53	27	50·4	35·0	42·5	- 3·1	33	20	7	0·94	+ 0·07	*	*	*	*
	Blacksod Point	55	38	52·9	43·7	48·2	- 1·7	43	0	6	1·82	?	*	*	*	*
	Markree Castle	55	27	53·8	34·1	43·7	- 3·4	45	22	5	0·63	- 0·34	34·0	+13·8	47	+19
	Armagh	55	31	52·3	38·9	45·4	- 1·3	37	9	5	0·62	- 0·04	32·9	+13·6	46	+19
	Donaghadee	56	38	53·7	40·3	46·8	- 1·3	41	5	5	0·54	- 0·16	*	*	*	*
10. IRELAND, S	Dublin	55	36	53·7	42·3	47·9	- 1·2	41	0	6	0·68	+ 0·01	35·1	+10·1	48	+14
	Parsonstown	56	30	53·0	34·7	43·6	- 3·6	42	20	6	0·65	- 0·04	34·7	+12·2	48	+17
	Kilkenny	57	29	54·0	36·6	45·0	- 3·1	44	15	5	0·93	+ 0·23	*	*	*	*
	Roche's Point	56	39	53·7	42·7	48·0	- 2·8	42	0	6	0·68	- 0·27	*	*	*	*
	Valencia	56	36	54·1	41·6	47·7	- 3·3	42	1	6	2·18	+ 0·91	30·6	+ 7·3	42	+10
	Killarney	60	33	57·3	41·4	49·1	- 0·6	52	2	5	1·11	- 0·18	*	*	*	*
	Foynes	55	34	53·6	42·2	47·7	- 1·0	40	0	6	1·19	+ 0·32	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	50	58·9	51·0	54·8	+ 1·5	90	0	6	1·36	+ 0·51	36·2	?	49	?
	Jersey	62	44	59·9	48·6	54·1	+ 0·6	85	0	5	0·98	- 0·02	29·3	+ 0·1	40	0

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

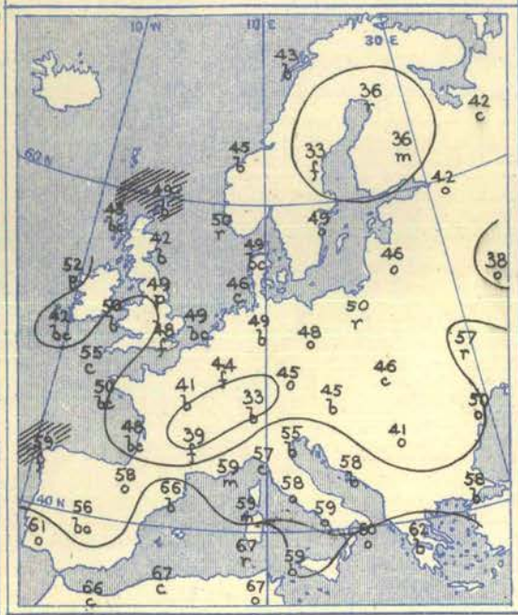
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

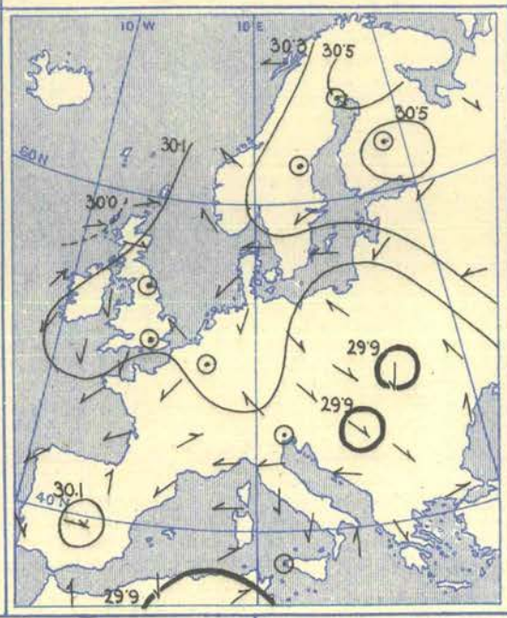
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 13th October.

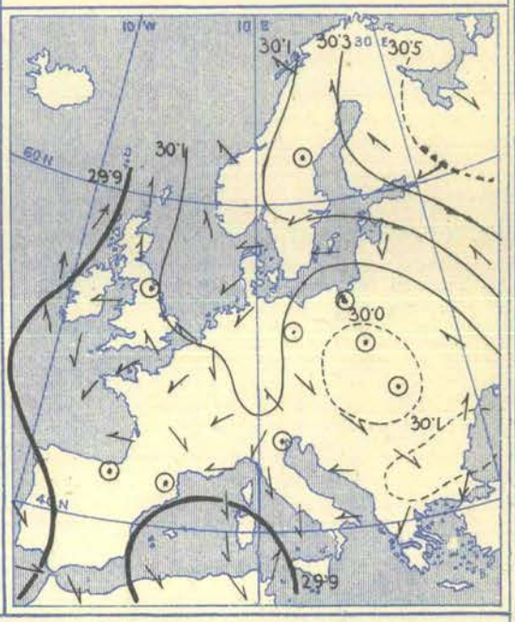
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in Ireland, Scotland and the west of Norway, and also over the greater part of France, Spain and northern Italy, but foggy over central France. Cloudy or dull elsewhere, with fog over central England and the Netherlands, and showers in the north of England; rain falling at Uleaborg, Neufahrwasser, Cracow and Kiev. Sky clearing later in the east and south of England but rain falling in Ireland and also in Denmark, Germany and western Russia.

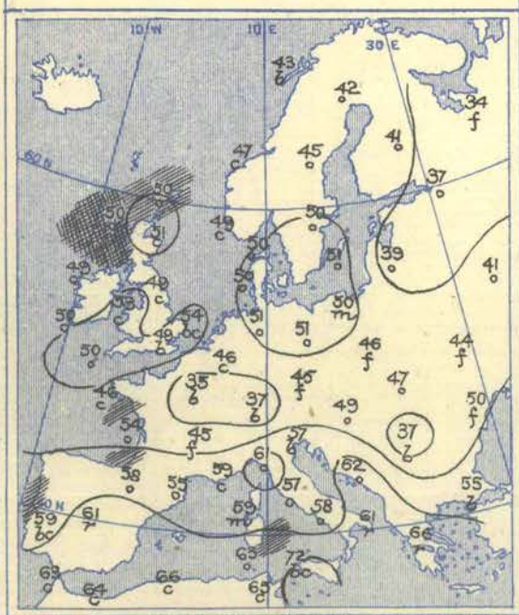
Temperature fallen in our Islands and the Netherlands, risen in France and Italy, changed irregularly elsewhere. Morning readings highest, 67° at Cagliari, Algiers and La Calle, and 66° at Barcelona; above 60° at many of the Mediterranean and Spanish coast stations. Lowest, (1) 33° at Munich and 34° at Belfort; (2) 33° at Hernösand and 36° at Uleaborg and Kuopio; (3) 36° at Parsonstown and 40° at Donaghadee. Rising during day to between 55° and 60° in most parts of the United Kingdom and to 62° at Jersey; exceeding 65° in the west of France and many parts of southern Europe, and reaching 72° at San Fernando and 73° at Palermo.

Wind light to moderate from between South and West over the northern parts of our Islands and from the South-Eastward or Eastward in the west of Norway; Easterly or North-Easterly in most other parts of western and northern Europe. Light from the North-Westward over Germany and Austria; variable over Spain, Italy and the south of France. Increasing to a gale at night from the Southward or South-Westward in the west of Scotland and the north-west of Ireland.

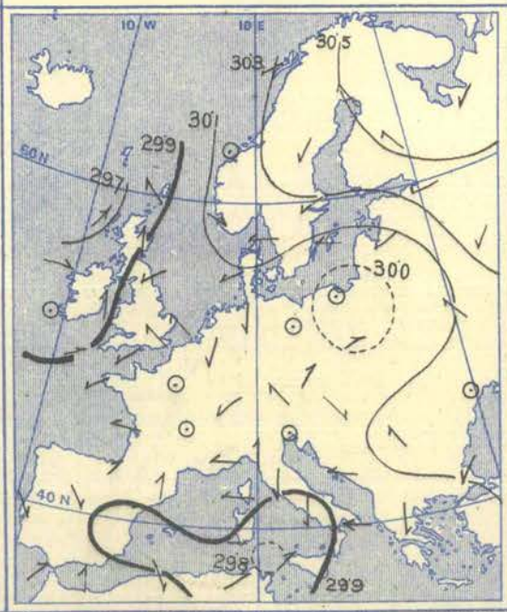
Barometer highest, 30·5 ins. and upwards over Lapland and central Finland; 30·1 ins. and upwards in an anticyclone extending from northern Europe over the North Sea, the Netherlands and the greater part of the United Kingdom. Lowest, 29·9 ins. and less in two small depressions over Austria, and also in another disturbance over Tunis. New depression advancing later to our own extreme north-west coasts and moving Northwards during night; barometer falling over nearly the whole of the United Kingdom.

Monday, 14th October.

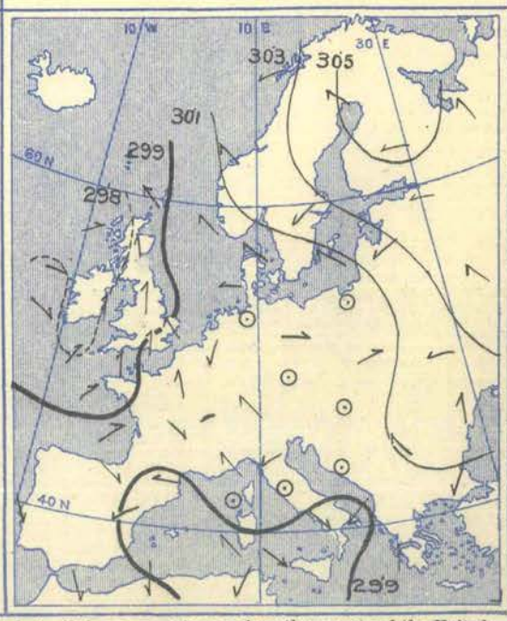
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in most parts of Great Britain and also over central France; cloudy or dull elsewhere, with rain in Ireland as well as at Madrid, Brindisi and Patras; fog reported in the south of Russia. Rain falling later at many of our own western and extreme northern stations and also in Sweden and the southern parts of France and Italy; violent thunderstorms occurring at Algiers.

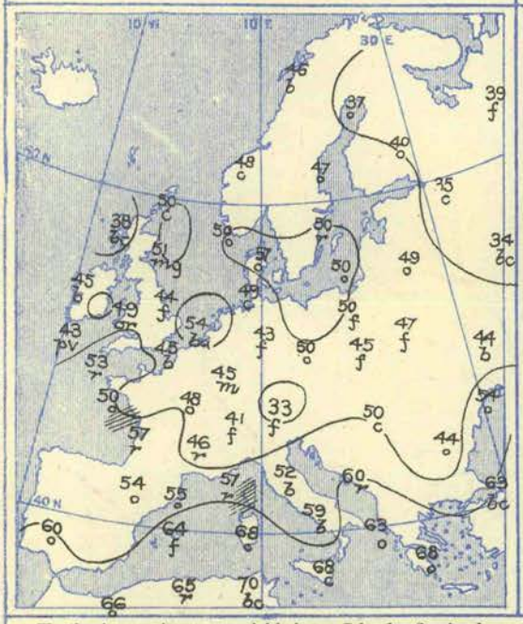
Temperature risen several degrees in the west and north of our Islands and to a less extent in Sweden and Finland; changed irregularly elsewhere. Morning readings highest, 72° at Palermo, 68° at Sfax and 66° at Patras and Algiers; above 60° at most of the Spanish, Mediterranean and Adriatic stations. Lowest, (1) 34° at Archangel, 37° at St. Petersburg and 39° at Riga; (2) 35° at Paris and 38° at Le Mans; (3) 37° at Munich and Hermanstadt; lowest in our Islands, 42° at Loughborough and Bath. Remaining below 55° all day at several of our own western and northern stations but exceeding that point in other parts of the United Kingdom and reaching 60° at Loughborough and Jersey; exceeding 65° in many parts of southern Europe and touching 72° at Leghorn and Cagliari.

Wind Southerly or South-Westerly in all the more western and northern parts of the United Kingdom, with a moderate gale in the Hebrides; light from the Eastward or South-Eastward over the greater part of England, France and the Netherlands. Light to moderate from the Eastward or North-Eastward over northern Europe; calm or variable over Germany and Austria; variable also over Spain and Italy. Subsequently veering to the North-Westward in Ireland; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over Lapland and the extreme north of Russia; 30·1 ins. and upwards in an anticyclone embracing the greater part of northern and eastern Europe. Lowest, 29·7 ins. and less in a depression off the west of Scotland; 29·9 ins. and less in a large shallow area over the western parts of the Mediterranean. Scotch depression subsequently moving northwards but "V"-shaped secondary system appearing over our western coasts.

Tuesday, 15th October.

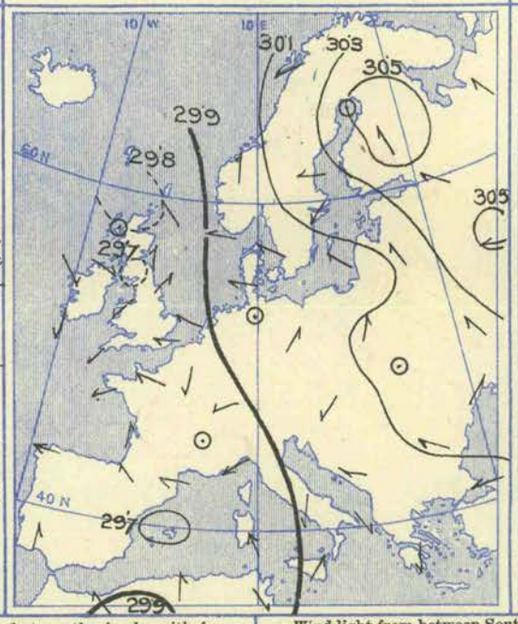
Temperature and Weather. 8 a.m.

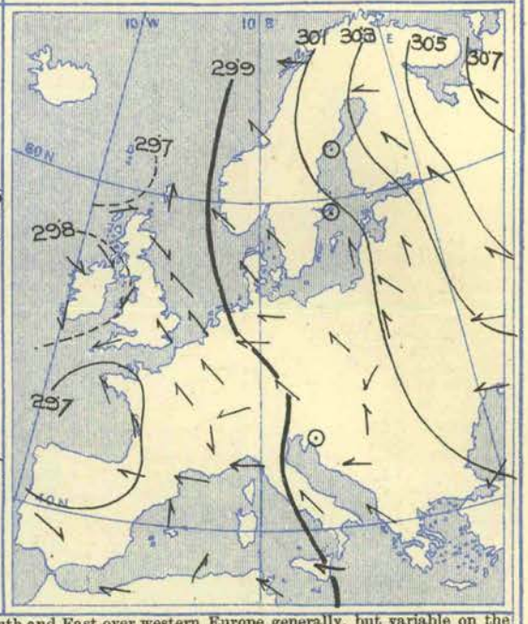


Weather in morning very variable in our Islands; fine in places, but mostly cloudy, with fog or mist in several parts of England, and rain or passing showers at some of our western and northern stations. Dull over the greater part of the Continent, with fog over south Germany and the east of France, and with rain in the southern parts both of France and Sweden; fine in Italy. Rain falling later in many parts of western and southern Europe—heavily in Italy, and still more heavily (2·6 ins.) at Lyons. Thunderstorm occurring at La Calle.

Temperature fallen in the west and north of our Islands, and also in Germany; risen in most other localities. Morning readings highest, 72° at Sfax, 70° at La Calle, and 68° at Patras, Cagliari and Palermo; above 60° at most of the Mediterranean stations. Lowest, (1) 33° at Munich and 39° at Frankfürt; (2) 34° at Moscow and 35° at Uleaborg and St. Petersburg; (3) 35° at Parsonstown and 38° at Stornoway (below 45° at several of our own western and northern stations). Remaining below 50° all day in several parts of Scotland, but exceeding 55° over England, and reaching 60° in London and 62° at Jersey. Exceeding 65° over southern Europe, and touching 73° at Leghorn and 72° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



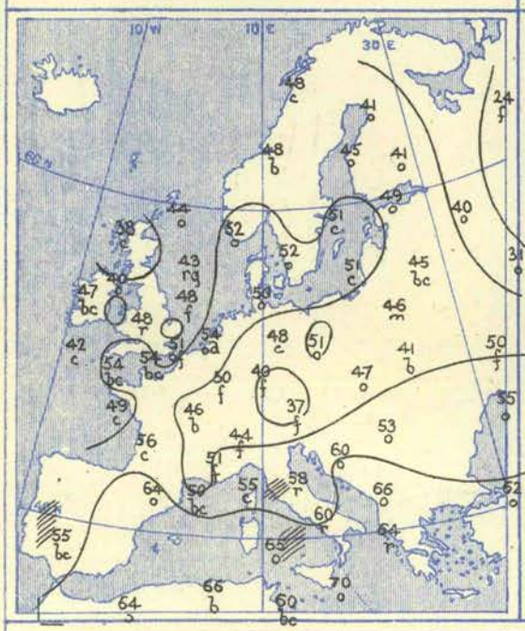


Wind light from between South and East over western Europe generally, but variable on the west coasts of Great Britain and North-Westerly in Ireland. Calm or variable in Germany and Austria; Northerly or North-Westerly in Italy; Southerly in Portugal. Subsequently veering to the Northward in the west and south of Ireland; no decided change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over Lapland and Finland; 30·1 ins. and upwards in an anticyclone lying over the whole of Russia and the greater part of Scandinavia. Lowest, 29·7 ins. and less in a depression off the east of Spain; 29·8 ins. and less in a large and complex area extending from Spain over the Bay of Biscay and the south-west of Great Britain, and also in two smaller systems lying respectively over the south of Scotland and off the extreme north of that country. General fall taking place over western Europe during day, the conditions remaining very complex.

Wednesday, 16th October.

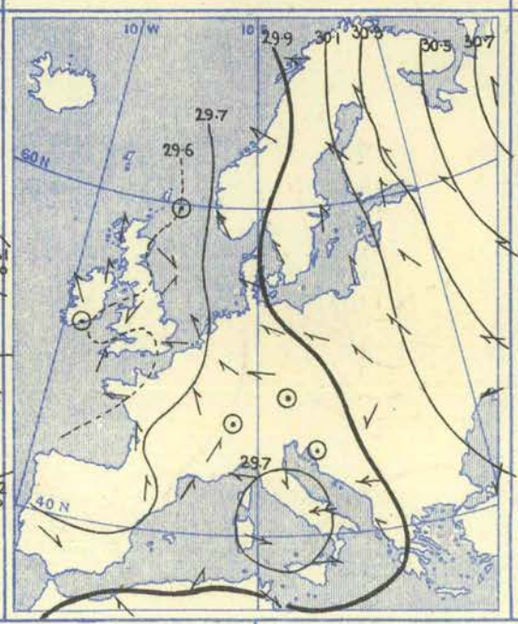
Temperature and Weather. 8 a.m.

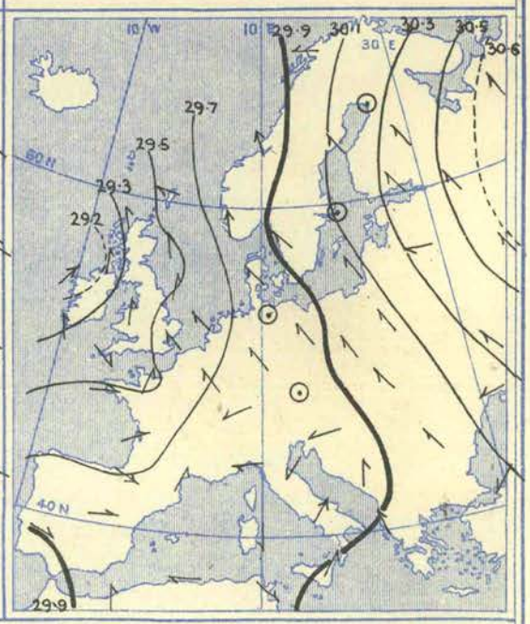


Weather in morning fine in Ireland, Scotland and France. Cloudy or dull elsewhere, with fog in many parts of England, France, Holland, Germany and Austria; rain falling in the east and south-east of England, as well as at Holyhead and at several of the Italian stations. Rain occurring during day in nearly all parts of western, northern and southern Europe, the amount being large (1·3 ins.) at Lyons. Thunderstorms occurring in the south of France and in Algeria.

Temperature risen in the south of England, and also over the greater part of central and southern Europe; fallen in most other regions. Morning readings highest, 72° at Sfax, 70° at Palermo, and 66° at Barcelona, Lesina and Algiers; above 60° in many parts of southern Europe, and slightly above 55° on the south-east coasts of England. Lowest, (1) 24° at Archangel and 31° at Moscow; (2) 31° at Parsonstown and 35° at Nairn; (3) 37° at Munich and Cracow. Rising during day to between 55° and 60° over the eastern, central and southern parts of England, and to 61° at Scilly; exceeding 70° at many of the Spanish and Mediterranean stations, and reaching 80° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



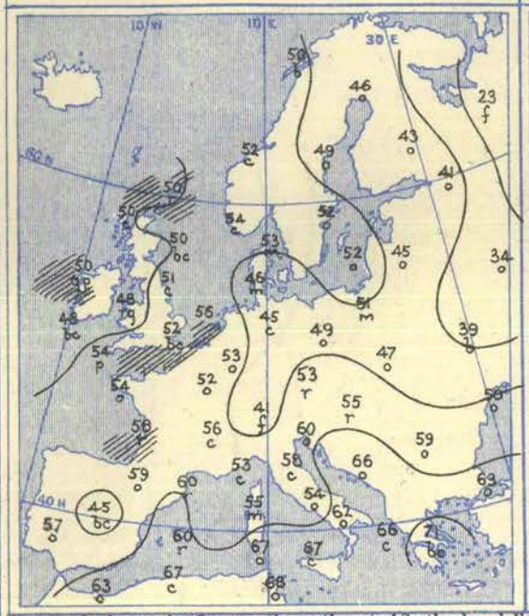


Wind light to moderate from the Southward or South-Eastward over western and northern Europe as a whole, but calm in the extreme north of Scotland and variable on our extreme south-west coasts. Variable in Germany and Austria; Easterly over the greater part of Italy. Subsequently veering to the South-Westward or Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·7 ins. and upwards over northern Russia; 30·1 ins. and upwards in an anticyclone lying over the whole of Russia and the north of Sweden. Lowest, 29·6 ins. and less in a large shallow depression over the extreme western and northern parts of the United Kingdom, and also in a secondary system over our south-west coasts. Both depressions moving slowly eastwards later, and barometer falling over western Europe generally.

Thursday, 17th October.

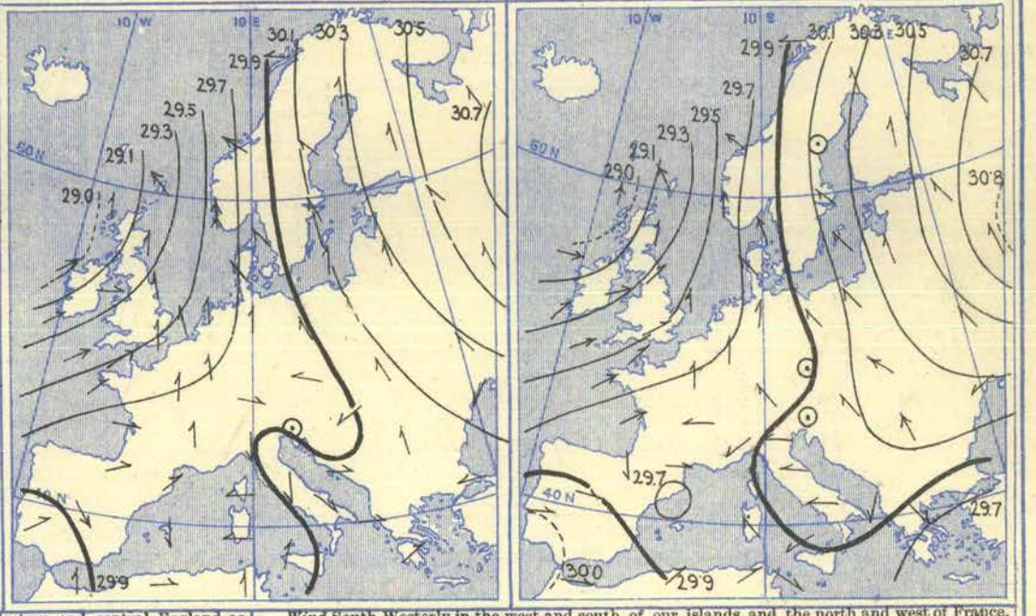
Temperature and Weather. 8 a.m.



Weather in morning fine over the north-east of Scotland and Eastern and central England as well as in Greece and central Spain. Cloudy or dull in nearly all the other parts of Europe, with showers in Ireland and the south-west of England, and steady rain at several of our own northern stations as well as in south Germany and at Rochefort, Barcelona and Palma. Fog reported in some parts of Germany and the east and south of France. Rain falling later in nearly all parts of Europe—very heavily (3·0 ins.) at Lyons.

Temperature risen generally, but fallen over Spain and northern Italy, and also in the south of Russia. Morning readings highest, 71° at Patras, 68° at Athens and La Calle, and 67° at Cagliari, Palermo and Algiers; above 60° at most of the Mediterranean and Adriatic stations, and above 55° in the west of France and on the south and east coasts of England. Lowest, 23° at Archangel, 34° at Moscow and 36° at Kharhov; lowest in our Islands, 41° at Parsonstown. Rising during day to 55° and upwards in most parts of the United Kingdom, and reaching 62° in London, exceeding 65° over southern Europe generally, and exceeding 70° over southern Italy, the highest reading of all being 77° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.

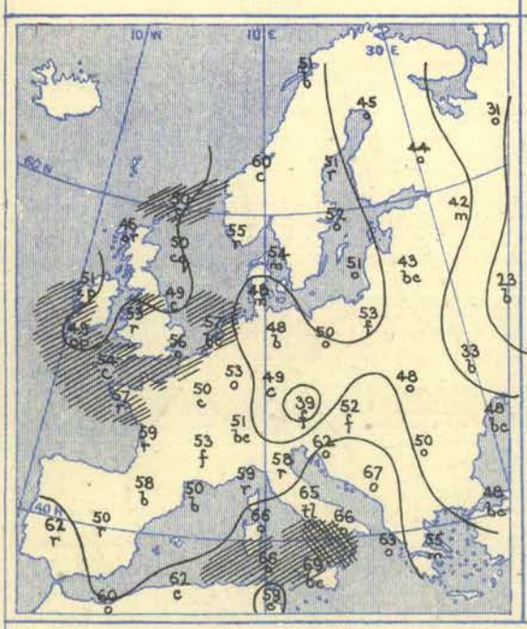


Wind South-Westerly in the west and south of our Islands and the north and west of France, Southerly on the east and north coasts of Great Britain, and South-Easterly over nearly the whole of northern and central Europe; moderate to fresh in force generally, but strong to a gale over the northern parts of the North Sea. Northerly or North-Westerly over Spain and Italy, variable in Greece and also in the south of France. No important change occurring during day.

Barometer highest, 30·6 ins. and upwards over northern and central Russia; 30·1 ins. and upwards in an anticyclone covering the whole of Russia and the north of Sweden. Lowest, 29·0 ins. and less in a large depression with its centre at some little distance to the north-westward of our Islands. Depression advancing very slowly north-eastwards later, but barometer rising at all but our extreme northern stations.

Friday, 18th October.

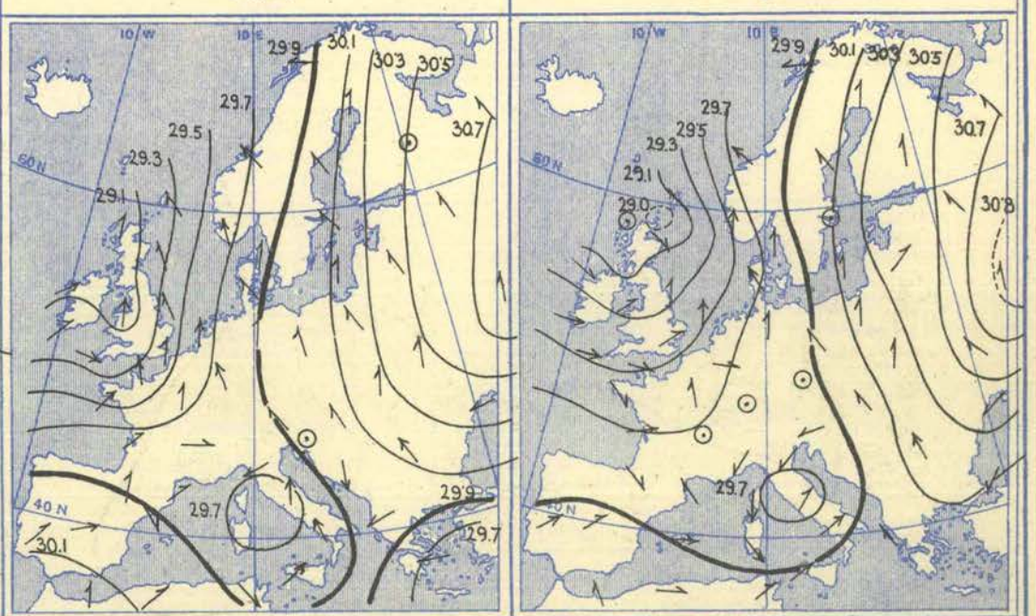
Temperature and Weather. 8 a.m.



Weather in morning rainy in the west and south of Great Britain and showery in Ireland; fine in the eastern parts of our Islands. Cloudy or dull at most of the Continental stations, with fog in many parts of Denmark, Germany and central France, and rain in the south of Scandinavia, as well as in central Spain, northern Italy and the west and south of France; fine over central and southern Russia. Rain falling later over nearly the whole of Europe—heavily in some parts of England, France and Spain.

Temperature risen in most places. Morning readings highest, 69° at Palermo, 67° at Lesina, and 66° at Naples and Cagliari; above 60° at most of the Mediterranean, Adriatic and Spanish coast stations, and touching that point at Christiansund; above 55° on the south and east coasts of England. Rising during day to 55° and upwards in most parts of the United Kingdom, and to 60° at Jersey; exceeding 60° in the west of France, and exceeding 65° over southern Europe, the highest readings reported being 75° at Palermo and 73° at Brindisi.

Barometer and Wind. 8 a.m. 6 p.m.

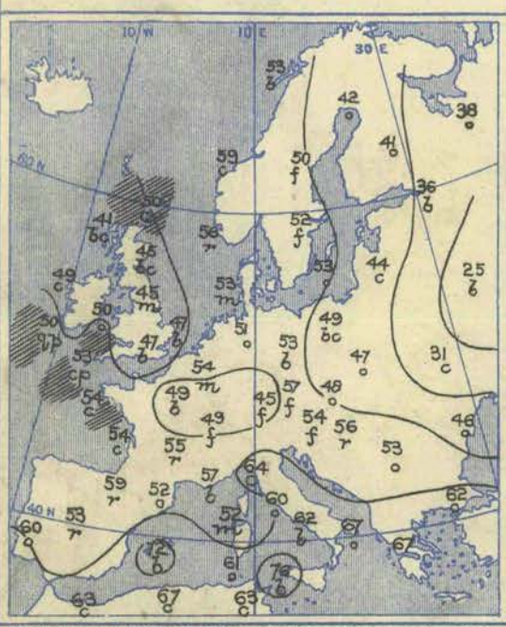


Wind Southerly or South-Easterly over western and northern Europe generally, and strong in force on many parts of the English, Welsh and Norwegian coasts. South-Westerly over Ireland, the west of France and the Spanish Peninsula; variable in the south of France; varying between South and East in Italy. Subsequently veering to the South-Westward over England, and to the North-Westward over Ireland and the west of France; no decided change occurring elsewhere.

Barometer highest, 30·7 ins. and upwards over central Russia; 30·1 ins. and upwards in an anticyclone lying over the whole of Russia and the north of Sweden. Lowest, 29·1 ins. and less in a "V"-shaped depression lying over the western parts of the United Kingdom; 29·7 ins. and less in another disturbance over Corsica, Sardinia and the neighbouring parts of the Mediterranean. Depression over our western coasts subsequently moving northwards, and barometer rising in nearly all parts of the United Kingdom.

Saturday, 19th October.

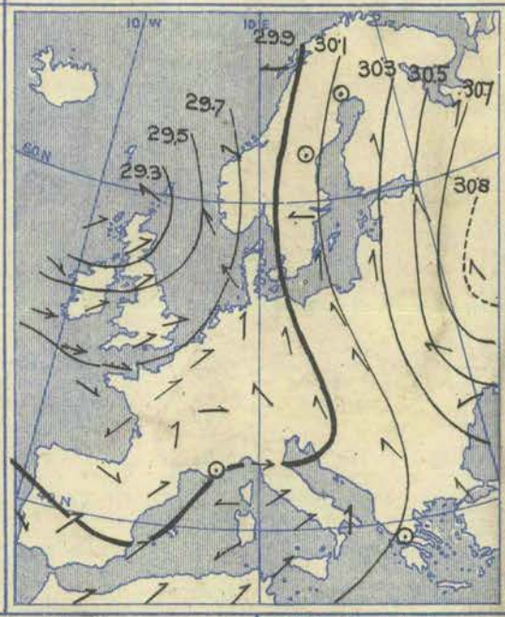
Temperature and Weather. 8 a.m.

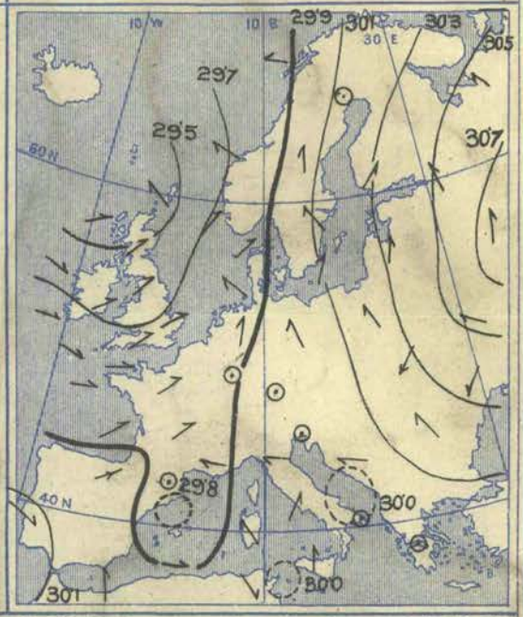


Weather in morning fair or fine over the greater part of our Islands and the adjacent portion of the Continent, but showery at some of our western stations. Dull over the Continent generally, with fog in Sweden, Germany, Austria, and the east of France, and with rain in Spain and the south of France. Rain falling during day in many parts of Europe—heavily over the south of France and the neighbouring parts of Spain and Italy (as much as 2·9 ins. at Biarritz and 2·0 ins. at Barcelona). Thunderstorms occurring in the south of France, and thunder heard in the southern suburbs of London.

Temperature fallen in most places. Morning readings highest, 76° at Palermo, 72° at Palma, and 67° at Patras and Algiers; above 60° at most of the Mediterranean stations, and above 55° on the south-east coasts of England and the west coasts of Norway, the reading at Christiansund being as high as 59°. Lowest, 25° at Moscow, 30° at Kharkov, and 30° at Kiev; lowest in our Islands, 39° at Nairn. Rising during day to between 55° and 60° in all but the extreme western and northern parts of the United Kingdom, and reaching 63° at Dungeness; exceeding 70° over Spain and the southern parts of France and Italy.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind moderate to strong from the Westward on our western and southern coasts, but light from the South-Westward in other parts of the United Kingdom, and also over France and the Netherlands; Southerly or South Easterly over northern and central Europe, and strong in force on the eastern shores of the North Sea. South-Westerly over Spain, Italy and Algeria, but Easterly in Corsica and Sardinia. Subsequently veering to the North-Westward on many parts of our western coasts, but decreasing in force.

Barometer highest, 30·8 ins. and upwards over central Russia; 30·1 ins. and upwards in an anticyclone covering the whole of Russia and Turkey, with the Gulf of Bothnia and the northern parts of the Baltic. Lowest, 29·3 ins. and less in a large, but somewhat shallow, depression with its centre off the north of Scotland. Depression moving northwards during day, and barometer rising in all parts of western Europe.

GENERAL NOTES.

Early in the week a large anticyclone existed over the northern parts of Sweden and Russia, the system afterwards spreading southwards and increasing in height; at the close of the period the readings of the barometer over central Russia exceeded 30·8 ins. In our Islands the conditions were affected at first by a broad band of high readings which extended south-westwards from the European anticyclone. This, however, soon gave way, and for the remainder of the week the weather in all the western countries was influenced by cyclonic systems of considerable size but of no great depth, which advanced from the Atlantic, the centres of these moving as a rule in a north-north-easterly direction outside our own extreme west and north-west coasts. The depressions of the 14th and 18th were originally "V"-shaped; and while in the former case the system split up, our portion moving southwards over the Bay of Biscay and the other away to the northward of Scotland, in the latter instance the whole system moved northwards and assumed a circular form, the weather in its rear shewing a decided improvement over the whole Kingdom. At other times the conditions were naturally very unsettled, with fresh, and in some cases very strong winds from between south and west and with frequent rains, often of considerable weight.

Over southern Europe the weather was influenced by another set of depressions which moved in irregular paths over Italy and the Mediterranean, and in the latter half of the week extremely heavy falls of rain occurred over the south of France and the neighbouring parts of Spain and Italy, attended in some instances by thunderstorms of considerable severity.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	23·5	+ 5·3	34	+ 8	BRIGHTON	18·6	-10·0	24	-14
STRATHPEFFER SPA	19·2	- 1·8	27	- 3	WORTHING	26·9	?	36	?
EDINBURGH	14·4	- 3·8	20	- 6	BOGNOR	25·0*	?	34*	?
MORPETH	15·3	?	21	?	WATERGATE (Emsworth)	22·0	?	30	?
NEWCASTLE-ON-TYNE	10·5	?	15	?	WESTBOURNE (Emsworth)	25·0*	- 1·0	34*	- 2
OSWALDKIRK (Yorkshire)	20·1	+ 0·7	28	+ 1	VENTNOR HOSPITAL	18·7	- 9·6	25	-14
YORK	13·5	- 6·0	19	- 8	BOURNEMOUTH	21·5	?	29	?
LOWESTOFT		?		?	SOUTHPORT	24·1	?	33	?
HOLLESLEY BAY	21·8	?	30	?	RHYL	*	?	*	?
SHEFFIELD	17·6	?	24	?	COLWYN BAY		?		?
WORKSOP	19·4	+ 0·3	27	+ 1	ABERDOVEY	29·2*	?	40*	?
THURCASTON (Leicestershire)	17·2	- 2·8	24	- 4	TENBY	28·2	+ 3·7	39	+ 6
MARGATE	30·0	+ 5·4	41	+ 8	NEWQUAY	32·4	+ 6·6	44	+ 9
BROADSTAIRS	17·7	?	24	?	TORQUAY	34·9	+ 9·9	47	+13
EASTBOURNE	16·8	-11·7	23	-16	CAHIR (Duneske)	29·6*	?	41*	?
					GUERNSEY	31·3*	+ 4·8	42*	+ 4

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Aug. 17th, 1901	Clifton	68	?49	?66·1	?53·7	?59·6	? - 1·0	?123	0	4	1·28	+ 0·51	—	—	—	—
" " " " "	Dublin	69	49	67·1	53·7	60·0	+ 0·5	126	0	4	0·51	- 0·18	—	—	—	—
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	44·0	?	43	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	33·5	?	33	?
" " " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	38·4	- 5·7	38	- 6

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 43.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 26TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 254.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	26	51·7	35·5	43·4	1 below	37	+ 7	18	+ 7	2258*	+370	594*	−11
	1. SCOTLAND, EAST	57	23	50·7	32·8	41·5	3 below	24	− 9	37	+24	2399	+167	712	+52
	2. ENGLAND, N.E.	57	28	51·7	36·4	43·8	3 below	36	− 2	16	+ 9	2718	+274	537	+ 7
	3. ENGLAND, EAST	60	29	53·4	37·0	44·9	2 below	41	− 2	14	+ 5	2984	+155	575	− 5
	4. MIDLAND COUNTIES	60	27	52·2	34·8	43·2	3 below	39	− 1	20	+10	2958	+186	611	+17
	5. ENGLAND, SOUTH	60	28	54·9	39·7	47·1	1 below	45	− 7	6	+ 1	3152	+ 58	451	+27
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	31	50·3	37·4	43·7	3 below	31	− 6	13	+ 6	2542	+161	493	+34†
	7. ENGLAND, N.W.	60	30	52·7	39·7	46·0	1 below	38	− 4	6	+ 1	2817	+203	459	+33
	8. ENGLAND, S.W.	60	30	54·8	38·7	46·5	2 below	45	− 6	9	+ 5	3090	+210	378	+48
	9. IRELAND, NORTH	56	28	51·6	38·6	44·9	2 below	35	− 5	10	+ 3	2520	+ 6	392	+ 7
	10. IRELAND, SOUTH	60	31	53·0	40·1	46·4	2 below	39	− 9	5	0	2907	+ 51	335	+57
	—CHANNEL ISLANDS	61	42	57·0	47·5	52·1	0 (average)	71	− 1	0	0	3540	+178	160	+38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 254.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	9	3 less	187	+ 2	33·3*	− 5·8	21	+ 5	32	+ 8	1195	+143	30	+ 3
	1. SCOTLAND, EAST	4	3	5 less	163	+ 4	22·1	− 3·3	26	+ 8	39	+12	1365	+162	35	+ 4
	2. ENGLAND, N.E.	3	7	0 (average)	138	− 9	17·6	− 3·1	23	+ 5	33	+ 7	1428	+221	36	+ 5
	3. ENGLAND, EAST	2	1	5 less	128	−19	15·4	− 5·1	26	+ 2	38	+ 3	1660*	+148	41	+ 4
	4. MIDLAND COUNTIES	3	3	4 less	129	−12	20·7	− 2·1	20	+ 3	29	+ 5	1396	+147	37	+ 3
	5. ENGLAND, SOUTH	3	4	4 less	121	−17	20·1	− 2·6	31	+ 6	44	+ 9	1700	+161	43	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	110	2 less	170	− 3	38·4	− 2·5	20	+ 2	30	+ 4	1442	+185	37	+ 5
	7. ENGLAND, N.W.	4	4	5 less	150	− 5	21·7	− 6·4	28	+ 9	40	+13	1576*	+270	40	+ 7
	8. ENGLAND, S.W.	5	7	4 less	140	−20	27·7	− 4·6	31	+ 9	44	+14	1605	+ 71	42	+ 2
	9. IRELAND, NORTH	6	8	0 (average)	188	+ 4	29·2	+ 0·1	26	+ 8	37	+10	1248	+ 87	32	+ 2
	10. IRELAND, SOUTH	6	6	3 less	159	− 8	29·3	− 3·1	26	+ 5	37	+ 8	1369	+ 44	35	+ 1
	— CHANNEL ISLANDS	6	10	1 more	159	− 1	24·7	− 0·8	29	+ 3	41	+ 4	1768	+116	47	+ 1

* This value has been altered owing to the receipt of further information for a preceding week.

† The corresponding value in last week's report should read "+ 28."

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period varied considerably in different parts of the Kingdom. Over Ireland and the west and north of Scotland there was a certain amount of rain almost daily, but elsewhere the conditions were mainly fair and dry. A thunderstorm, however, occurred in the north-east of England on Monday, causing very heavy rain at Shields. Towards the end of the week fog became very prevalent over central England.

Temperature was below the mean in all districts except the Channel Islands, the deficit in most districts being 2° or 3°. The highest of the maxima were recorded, as a rule, on Sunday, and ranged from 63° in Scotland N., 61° in the Channel Islands, and 60° in nearly all the English districts to 56° in Ireland N. and 54° in Scotland W. The lowest of the minima, which were registered on rather irregular dates, ranged from 23° in Scotland E. and 28°, 29° or 30° in nearly all other districts to 31° in Scotland W. and Ireland S. and to 42° in the Channel Islands.

Rainfall was less than the mean over the country generally, but just equal to it in England N.E., and Ireland N., and a little more than the normal in the Channel Islands. As much as 1·75 ins. fell at Shields during the night of Monday.

Bright Sunshine was fairly abundant for the time of year in all districts. The percentage of the possible duration ranged from 44 in England S. and S.W., and 41 in the Channel Islands, to 29 in the Midland counties.

Barometer and Wind. The distribution of pressure over our Islands and their neighbourhood changed frequently and was at times complex. Several areas of low pressure were shown over or in the immediate vicinity of our Islands, but they were not deep, and the accompanying winds were chiefly light or moderate and differed greatly in direction from time to time. At the end of the week calms prevailed over the central parts of England.

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II.—DATA from which the SUMMARY on page 253 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	36	52·6	40·3	46·3	+ 1·5	37	5	7	1·40	+ 0·40	*	*	*	*
	Stornoway	57	31	51·7	35·0	43·1	- 1·5	37	20	5	1·08	- 0·14	17·8	+ 0·4	27	0
	Wick	54	28	51·9	32·6	42·0	- 2·8	28	26	1	0·42	- 0·28	*	*	*	*
	Lairg §	63	26	55·8	30·5	42·8	+ 0·1	54	32	2	0·21	- 0·67	*	*	*	*
	Glencarron §	51	32	48·6	36·2	42·2	- 1·5	26	16	6	1·23	- 0·84	*	*	*	*
	Fort Augustus §	52	29	51·0	35·5	43·0	- 2·3	34	18	3	0·26	- 0·69	18·8	+ 5·0	28	+10
	Fort William §	59	32	50·4	38·7	44·4	- 1·6	31	9	6	1·58	- 0·18	10·5	- 4·5	16	- 6
1. SCOTLAND, E.	Nairn	57	28	52·1	32·7	42·1	- 2·5	40	26	2	0·19	- 0·36	*	*	*	*
	Aberdeen	54	30	51·6	32·4	41·7	- 3·9	27	38	3	0·27	- 0·41	31·4	+ 11·2	47	+17
	Braemar §	49	23	46·1	30·5	38·1	- 3·6	11	42	3	0·16	- 0·74	*	*	*	*
	Ochtertyre §	54	29	50·7	33·0	41·6	- 3·1	24	36	6	0·56	- 0·42	*	*	*	*
	Leith	57	31	53·1	36·0	44·3	- 2·4	41	17	4	0·28	- 0·19	*	*	*	*
	Marchmont §	53	29	50·7	32·1	41·1	- 3·2	24	39	3	0·20	- 0·60	28·3	+10·6	42	+16
2. ENGLAND, N.E.	Alnwick Castle	55	28	51·8	33·5	42·4	- 3·3	39	24	2	0·29	- 0·46	*	*	*	*
	Durham	55	28	50·8	33·1	41·7	- 3·8	25	36	4	0·97	+ 0·27	20·5	+ 2·2	30	+ 3
	Shields	52	35	50·0	38·0	43·8	- 2·8	29	11	3	1·91	+ 1·31	*	*	*	*
	Scarborough M	57	33	53·6	35·4	44·2	- 2·9	43	18	2	0·14	- 0·58	23·8	?	35	?
	Spurn Head	56	41	52·1	42·1	47·0	- 1·1	35	0	2	0·15	- 0·38	*	*	*	*
	Fulbeck (Lincolnshire)															
3. ENGLAND, E.	Hillington M	56	31	52·6	35·0	43·5	- 3·2	40	20	2	0·20	- 0·43	21·6	+ 1·6	31	+ 2
	Yarmouth	57	38	52·7	41·0	46·7	- 1·2	37	3	2	0·08	- 0·58	*	*	*	*
	Geldeston	59	3)	53·9	35·9	44·6	- 3·1	44	17	2	0·12	- 0·48	24·6	+ 2·6	35	+ 2
	Cambridge	6)	29	54·0	34·9	44·2	- 2·8	45	20	2	0·10	- 0·42	22·3	+ 0·3	32	+ 1
	Felixstowe	57	36	54·5	41·0	47·6	+ 0·1	43	3	2	0·09	?	33·8†	?†	48†	?†
	Rothamsted	57	29	52·5	34·0	43·0	- 3·4	41	22	3	0·23	- 0·45	27·0	+ 4·6	39	+ 7
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	27	49·4	34·6	41·8	- 3·9	21	30	5	0·40	- 0·20	*	*	*	*
	Loughborough	60	28	53·4	33·3	43·1	- 3·6	44	24	2	0·27	- 0·32	*	*	*	*
	Colly Weston (Stamford)	57	2)	52·7	34·4	43·3	- 2·8	41	21	2	0·29	?	*	*	*	*
	Cheadle M	56	31	51·3	35·4	43·1	- 2·1	35	18	2	0·34	- 0·43	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	56	35	51·9	37·9	44·7	- 1·8	36	11	1	0·14	- 0·50	19·4	?	28	?
	Churchstoke M	57	33	51·6	35·8	43·5	- 2·0	37	17	4	0·36	- 0·44	21·1	+ 2·1	31	+ 4
	Hereford (Belmont) M	56	31	53·0	34·4	43·4	- 3·3	42	21	2	0·15	- 0·48	*	*	*	*
	Cirencester	56	31	52·4	33·4	42·6	- 3·2	40	24	4	0·21	- 0·50	27·3	+ 6·4	39	+10
	Oxford	57	29	54·0	34·0	43·7	- 3·2	46	22	2	0·25	- 0·32	24·3	+ 3·3	35	+ 5
5. ENGLAND, S	London	58	33	52·3	37·0	44·4	- 3·7	38	14	2	0·03	- 0·57	10·1†	- 5·6†	14†	- 8†
	Swarraton (Alresford) M	57	28	53·1	32·9	42·7	- 3·8	43	25	4	0·30	- 0·48	*	*	*	*
	Dungeness	60	33	56·4	39·3	47·6	- 2·2	51	8	2	0·31	- 0·41	32·3	?	46	?
	Hastings (St. Leonards)	60	40	56·0	43·3	49·5	- 0·1	53	0	3	0·44	- 0·41	29·6	+ 4·6	42	+ 7
	Southampton	59	31	56·5	37·5	46·7	- 2·5	52	13	5	0·67	- 0·11	30·2	+ 6·6	43	+10
	Portland Bill	58	45	55·7	47·7	51·6	+ 2·0	67	0	5	0·87	?	*	*	*	*
	Shaftesbury M	58	38	54·0	40·5	47·1	+ 0·6	42	4	3	0·11	- 0·74	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	35	50·1	39·2	44·5	- 2·0	29	8	7	1·65	- 0·05	*	*	*	*
	Glasgow	51	34	48·5	38·6	43·4	- 4·8	24	10	6	0·40	- 0·45	14·3	+ 0·5	21	+ 1
	Glenlee §	54	31	49·9	34·0	41·7	- 3·7	22	32	6	1·09	- 0·22	*	*	*	*
	Douglas (Isle of Man)	54	34	52·5	37·9	45·0	- 2·2	38	11	7	0·94	- 0·08	26·3	+ 4·9	38	+ 7
7. ENGLAND, N.W.	Newton Reigny	55	30	51·9	33·7	42·5	- 2·2	38	23	4	0·15	?	27·3	?	40	?
	Stonyhurst	53	34	50·2	38·7	44·3	- 1·6	30	9	2	0·30	- 0·82	23·0	+ 5·4	33	+ 7
	Blackpool M	56	36	54·2	40·1	46·9	- 0·6	42	5	5	0·47	- 0·45	26·3	+ 8·3	38	+12
	Manchester (Prestwich)	57	35	52·3	37·0	44·4	- 1·9	38	14	4	0·47	- 0·33	15·3	?	22	?
	Liverpool Obsy. (Bidston)	53	39	52·0	40·9	46·3	- 1·5	35	3	4	0·49	- 0·29	28·5	?	41	?
	Chester (Hawarden Bridge)	57	35	54·0	39·7	46·6	- 1·6	42	6	3	0·15	- ?	*	*	*	*
	Llandudno M	60	39	54·1	42·8	48·3	- 0·8	44	0	6	0·41	- 0·47	32·1	+14·3	47	+21
	Holyhead	55	43	52·9	44·6	48·6	- 1·0	46	0	6	0·92	- 0·05	*	*	*	*
8. ENGLAND, S.W.	Llandovery	59	30	55·6	35·1	45·1	- 1·3	51	19	7	0·55	- 0·70	*	*	*	*
	Pembroke	57	45	55·0	45·9	50·3	+ 0·2	58	0	6	1·02	+ 0·07	34·2	+12·6	49	+18
	Clifton	55	36	52·3	39·9	45·9	- 1·8	36	6	3	0·17	- 0·68	*	*	*	*
	Bath	58	31	54·7	33·1	43·5	- 4·5	48	25	4	0·07	?	27·8	?	40	?
	Arlington (N. Devon)	56	36	54·3	38·7	46·3	- 1·4	44	9	4	1·10	- 0·30	*	*	*	*
	Cullompton M	58	31	55·0	33·8	44·1	- 3·0	49	23	6	0·67	- 0·21	24·5	+ 4.5	35	+ 7
	Falmouth	57	43	54·2	44·5	49·2	- 1·4	50	0	6	1·02	- 0·20	28·9	+ 4·6	41	+ 7
	Plymouth	60	38	56·9	38·8	47·6	- 2·4	53	9	5	0·77	- 0·08	34·1	+12·1	48	+17
9. IRELAND, N.	Malin Head	54	40	50·1	42·1	46·0	- 1·8	28	0	6	0·69	?	*	*	*	*
	Edenfel (Omagh)	53	33	50·3	35·6	42·7	- 2·0	32	18	7	1·04	+ 0·18	*	*	*	*
	Blacksod Point	56	38	52·7	43·0	47·7	- 1·1	40	0	6	0·66	?	*	*	*	*
	Markree Castle	54	28	52·6	34·7	43·4	- 2·7	40	20	5	0·66	- 0·30	25·1	+ 6·4	36	+10
	Armagh	54	34	51·9	38·2	44·9	- 0·8	36	11	5	0·63	+ 0·01	25·8	+ 7·7	37	+10
	Donaghadee	53	36	52·1	38·0	44·8	- 2·5	36	11	7	1·06	+ 0·34	*	*	*	*
10. IRELAND, S	Dublin	55	36	51·4	39·9	45·5	- 2·5	33	6	4	0·15	- 0·50	31·0	+ 8·0	45	+12
	Parsonstown	53	33	51·9	37·0	44·2	- 2·0	36	14	5	0·21	- 0·47	27·9	+ 6·1	40	+10
	Kilkenny	55	32	52·6	35·4	43·8	- 3·4	40	18	7	0·31	- 0·39	*	*	*	*
	Roche's Point	56	40	54·0	44·0	48·9	- 0·9	48	0	5	0·96	- 0·02	*	*	*	*
	Valencia	55	36	53·7	43·6	48·5	- 1·6	46	0	7	0·64	- 0·66	21·8	+ 0·3	31	0
	Killarney	56	31	54·9	40·3	47·4	- 1·4	45	5	6?	1·33?	- 0·01	*	*	*	*
	Foynes	60	35	52·6	40·8	46·5	- 1·3	37	3	6	0·63	- 0·27	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	47	55·9	48·9	52·3	- 0·2	72	0	7	1·17	+ 0·32	31·2	?	44	?
	Jersey	61	42	58·1	46·0	51·9	- 0·4	69	0	5	0·80	- 0·20	26·9	+ 0·1	38	+ 1

Stations marked M are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

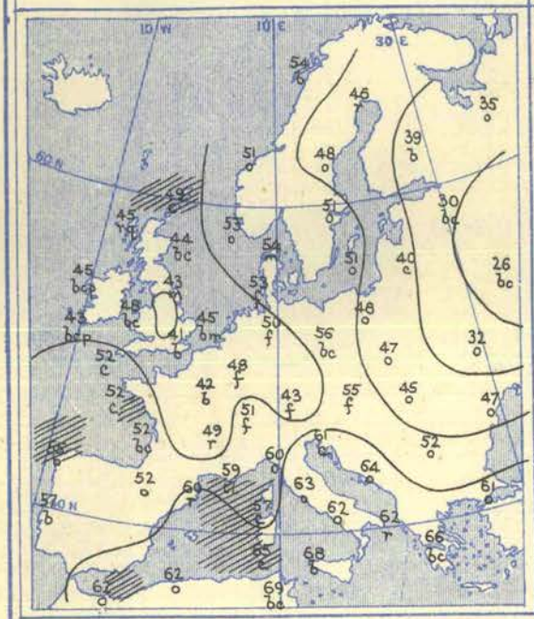
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

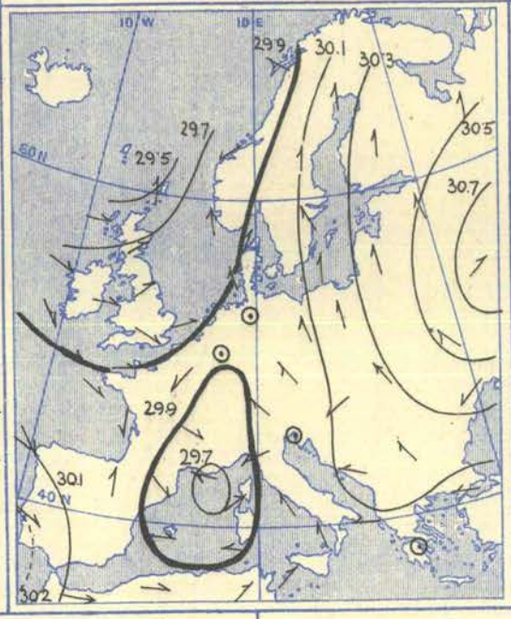
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 20th October.

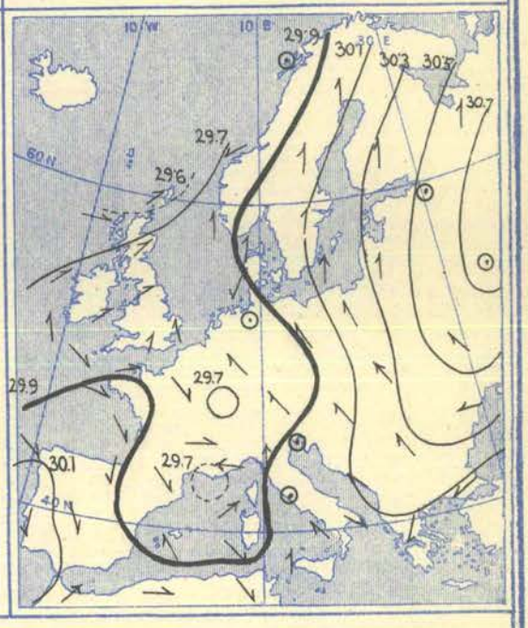
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Russia and the neighbouring parts of central Europe, as well as over the major part of Great Britain and Ireland; showery in the extreme west and north-west. Fair in the north of France, but very rainy in the south, with thunder and lightning at Toulon. Rain later in most parts of our Islands, Scandinavia and Germany, but not in large quantity; very large quantities in the south and east of France; lightning at Blacksod Point.

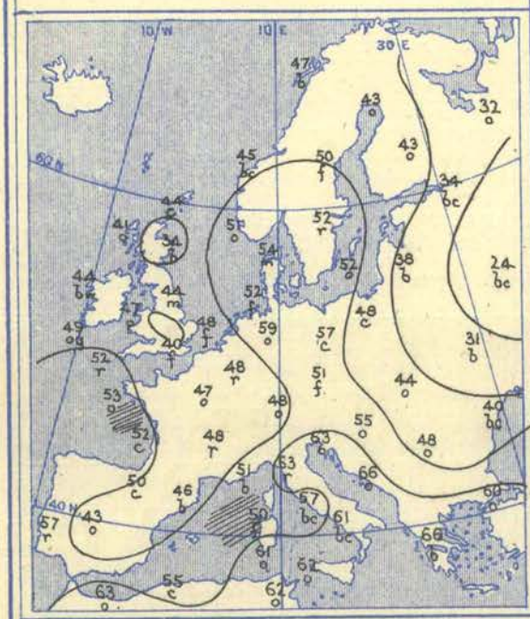
Temperature fallen over Ireland, England and France. Morning readings ranging from 69° at La Calle, 62° at Algiers, 61° at Trieste, 60° at Barcelona and Nice, 55° over south Germany, and 50° to 54° in the west of Norway, to 40° at Donaghadee, 43° at Shields, to below the freezing point over central Russia, and 26° at Moscow. Rising later to much above 50° all over north-western Europe, 60° at Loughborough and Dungeness, and 61° at Jersey, 64° at Berlin, 63° at Rochefort and Lisbon, to 75° at Brindisi, 77° at Palermo, 80° at Tunis.

Wind (1) North-Easterly to Easterly in the south of Russia; South-Easterly, strong over central Europe; Southerly over the Baltic and Finland; (2) very variable and light from between West and South over the British Islands; Easterly to Northerly over the north of France; (3) a definite cyclonic circulation of strong breezes prevailing over the Mediterranean. Many changes of an indecisive character over our Islands later, and some modification of the breezes over the Mediterranean.

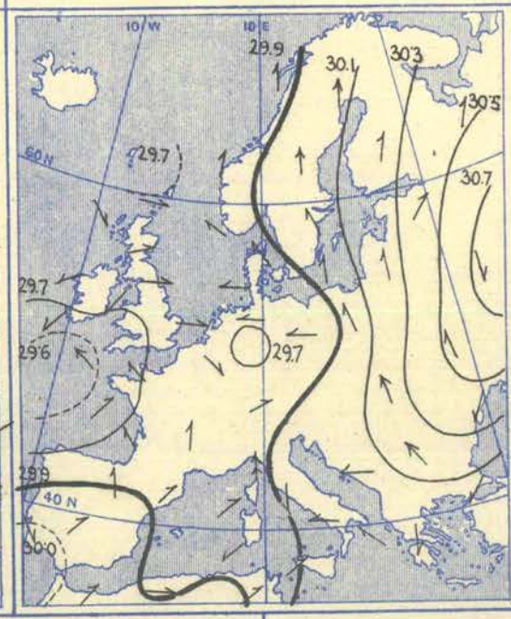
Barometer highest, (1) 30·7 ins. and more to 30·5 ins. over central Russia; (2) 30·2 ins. at Lisbon, and exceeding 30·0 ins. all over the Spanish Peninsula. Lowest, (1) 29·7 ins. and less in a "minimum" over the north of the Mediterranean; and (2) 29·5 ins. to 29·7 ins. in another system off the north of Scotland. Falling slowly again later over the United Kingdom and Norway; rising over Russia. Other shallow baric minima appearing over central Europe.

Monday, 21st October.

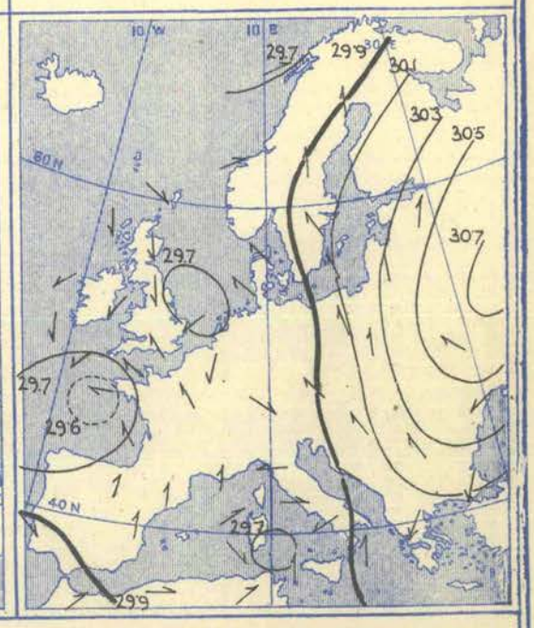
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at many of our own northern stations, as well as over Russia; foggy over the inland parts of England, and rainy on our south-west coasts; mostly overcast at the Continental stations, with rain in the Netherlands, and also at Stockholm, Faerder, Lyons, and several of the Italian stations. Rain later at most stations in western Europe, with lightning in several places, and a thunderstorm, with heavy rain (1·75 ins.) at Shields.

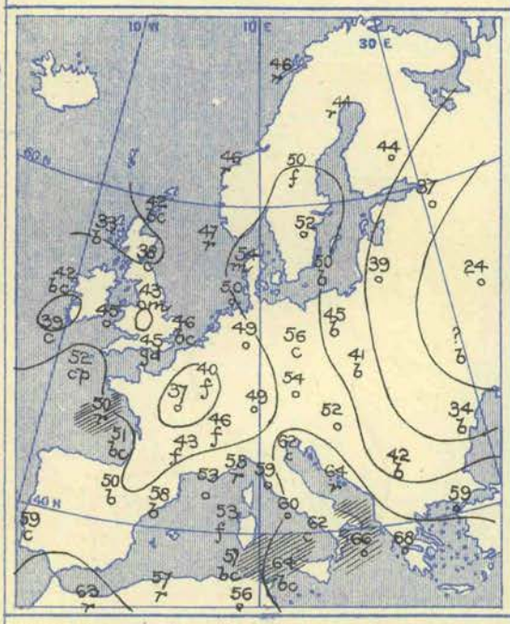
Temperature fallen over the United Kingdom generally, but risen a little on our south-east and south-west coasts, as well as at many of the Continental stations. Morning readings highest, 68° at La Calle, 66° at Lesina, Brindisi and Patras, 65° at Athens, and 63° at Nemours. Lowest, 24° at Moscow, 29° at Charkow, 31° at Kief, and 34° at St. Petersburg; lowest in our Islands, 30° at Loughborough, 32° at Oxford, and 34° at Aberdeen. Maxima during day not reaching 60° at any of our own stations, but rising to above 60° over Germany and the south of France; reaching 72° in many parts of Italy, and touching 79° at Sfax.

Wind light to moderate from South-East or East on the west coasts of our Islands and France, but light from West or South-West on our north and east coasts. A cyclonic circulation of light wind shown over Germany and the Netherlands; Easterly in Denmark and the south of Norway. Southerly over Scandinavia, Austria and Russia, and strong in force over the Gulf of Bothnia; variable over southern Europe; blowing a gale over northern Italy. No material change later.

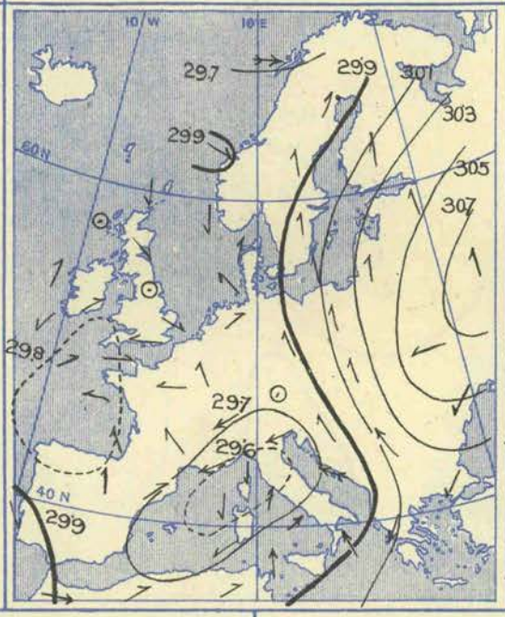
Barometer highest, 30·7 ins. to 30·3 ins. in an anticyclone over Russia. Lowest, 29·6 ins. and less in a shallow depression lying off our south-west coasts, and 29·7 ins. and less in still shallower systems over the Straits of Dover and over north-western Germany. Disturbance off our south-west coasts moving south-eastwards later, that over Germany spreading northwards, and new shallow system appearing to the northward of Scilly.

Tuesday, 22nd October.

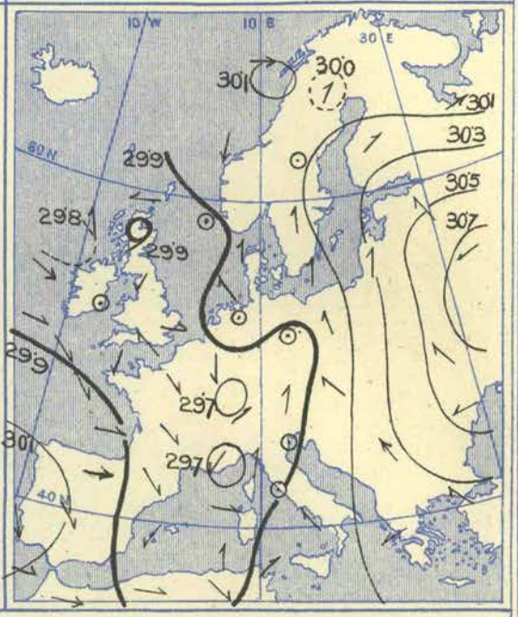
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over southern Russia, the Balkan Peninsula, Sicily and Tunis only, and the northern part of Scotland; very unsettled elsewhere and changeable in the extreme over our Islands, with rain in the west of Norway, over the northern shores of the Mediterranean, at a few of our southern stations and over Brittany and the Channel Islands; fog prevalent in many parts of our Islands and at Brussels. Rain later in Norway and over Wales and the west of England generally, sporadically in other parts of our Islands; generally over the south of France and the greater part of Italy.

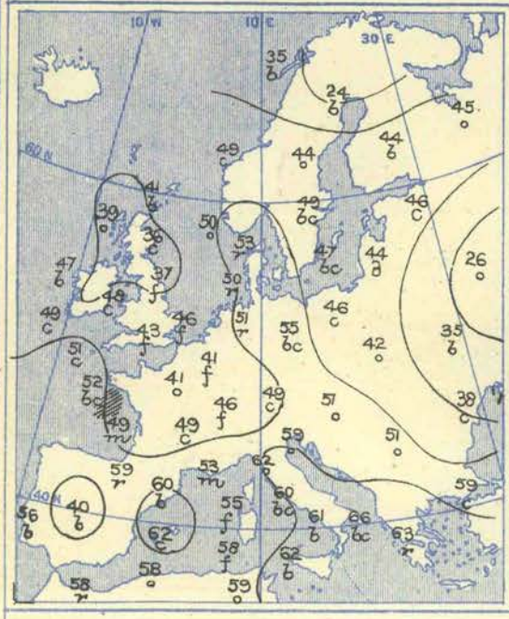
Temperature fallen over Ireland and Scotland, France and central Europe. Morning readings highest, 68° at Patras, 64° at Palermo, 62° at Algiers, 60° at Rome, 52° at Scilly and Stockholm. Lowest 24° at Moscow, below 40° over Russia generally, 46° to 47° in the west of Norway; 35° at Parsonstown, 36° at Loughborough and Oxford; 37° at Paris. Rising later to between 50° and 53° over the greater part of our Islands, 58° at Dungeness, 59° at Jersey and Lorient, 63° at Biarritz, 66° at Perpignan.

Wind Southerly over Russia and Finland, South-Easterly over Central Europe and blowing strongly on the coast of Finland; cyclonic over the Mediterranean and Adriatic and blowing a gale from East-South-East at Lesina. Very light in force and extremely variable in direction over the United Kingdom and the neighbouring parts of north-western Europe. No decided change over north-western Europe later but some modification and amelioration over the southern countries

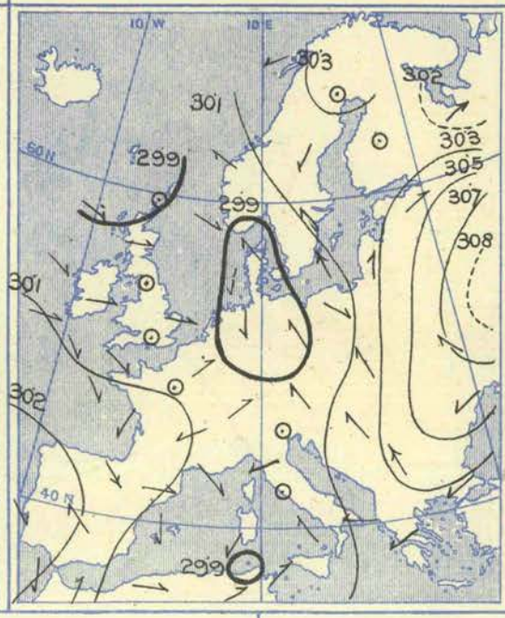
Barometer highest, 30·7 ins. and more to 30·3 ins. over Russia; and about 30·0 ins. over the south of Portugal, 29·9 ins. and more over the Netherlands. Lowest, 29·5 ins. in a barometric minimum at Florence; below 29·9 ins. over nearly the whole of the British Islands, the North Sea and Norway. No important change later over our Islands and their neighbourhood, but the depression over southern Europe undergoing great modification and spreading northwards.

Wednesday, 23rd October.

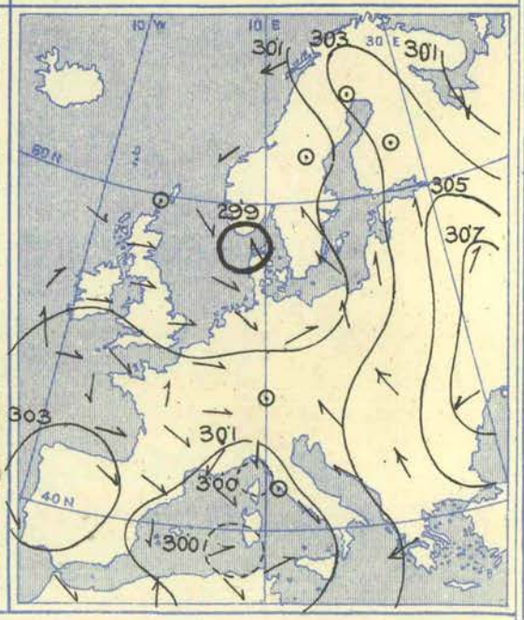
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Lapland, the south of Russia, Italy, the Mediterranean, and most parts of south-western Europe as well as over Ireland and Scotland; very foggy over England, rainy at Liverpool and at stations on the eastern shores of the North Sea; very unsettled and changeable over north-western Europe generally. Rain later at our western and northern stations generally as well as over Scandinavia and the south-west of France.

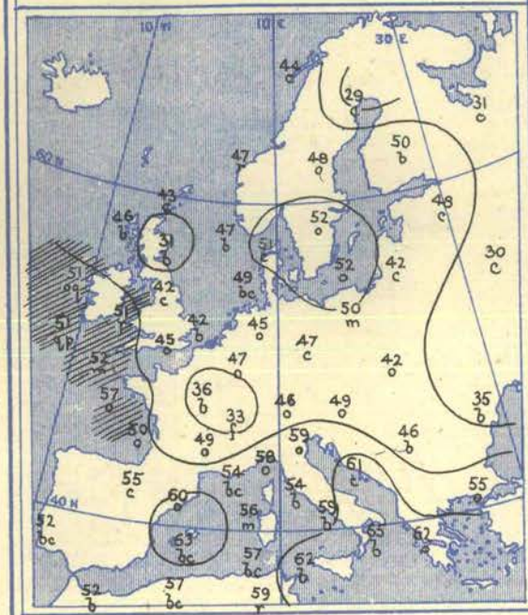
Temperature fallen greatly over Lapland, not changed much nor regularly elsewhere. Morning readings highest, 66° at Brindisi, 62° at Palma, and above 60° at several Mediterranean stations; 56° at Lisbon, 52° at Brest and Portland Bill, 50° at Pembroke; 55° to 53° over central Europe, 53° to 50° over the south of Scandinavia. Lowest, 24° at Haparanda, 35° at Bodö and Aberdeen, 38° at Donaghadee. Rising later to 50° or more all over the British Islands, to 60° at Dungeness, 61° in the west of France, and 64° at Perpignan.

Wind very light from North-West over Ireland and the South-West of England, from North-West to North-East over the Bay of Biscay; stronger from South-East to East over the greater part of Germany, the Baltic and Scandinavia. Variable airs and calms between these two regions. Separate circulations over the Mediterranean and the eastern shores of the North Sea. Backing to the Southward again in Ireland at night; no material change elsewhere.

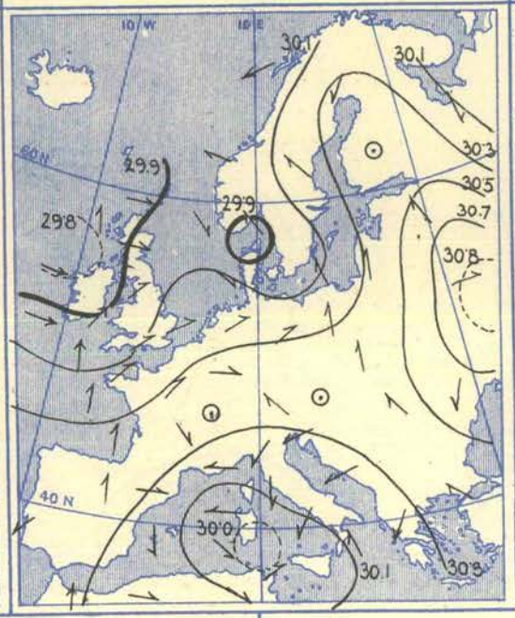
Barometer highest, (1) 30·8 ins. and more to 30·3 ins. over Russia; (2) 30·2 ins. and more over the Spanish Peninsula, and exceeding 30·1 ins. all over the Bay of Biscay and the western and central parts of France. Lowest, 29·9 ins. and less over the Shetlands and north of Scotland and in another shallow minimum over Denmark and the north-west of Germany. Below 30·0 ins. over the central parts of the Mediterranean. The northern and eastern systems filling up later, those over the Mediterranean becoming deeper and more complex. Barometer beginning to fall again in the west of Ireland.

Thursday, 24th October.

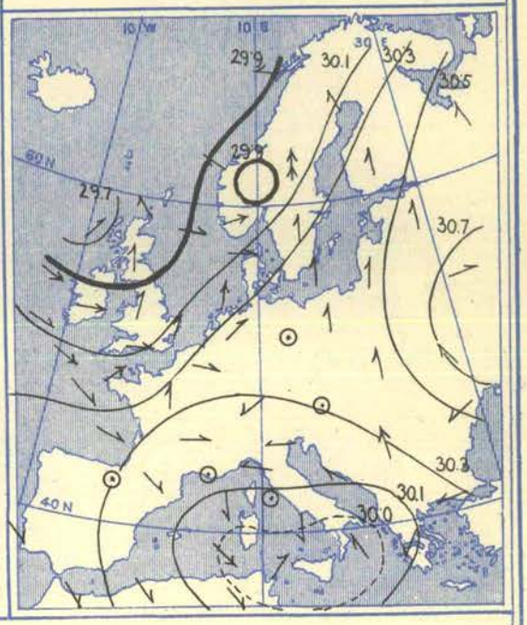
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally over Russia, central Europe and Spain, very changeable over the northern countries and the British Islands, with rain in many places—particularly in the south of Scandinavia and the western parts of our Islands. Unsettled over the Mediterranean also, though clear at many stations; rainy at La Calle. Rain later in almost all parts of the British Islands and their neighbourhood as well as in many parts of France, but amounts not large; lightning seen at Fanö.

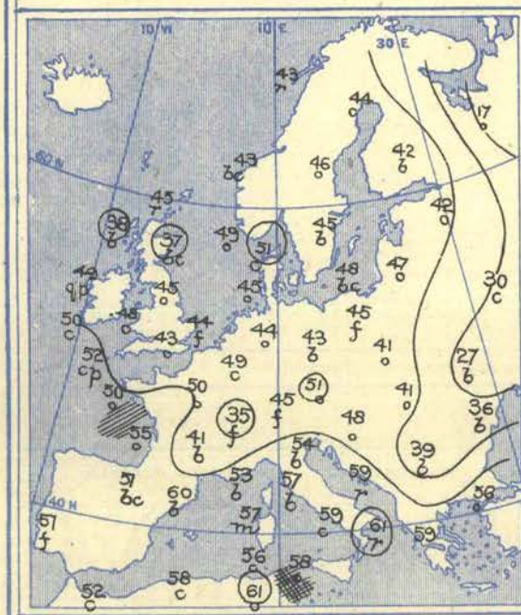
Temperature risen greatly in Ireland, not much altered elsewhere. Morning readings highest, 65° at Brindisi, 62° at Patras and Palermo, 63° at Palma, 57° to 59° over the Bay of Biscay, 51° at Breslau, 50° at Prague. Lowest, 29° at Haparanda, 31° at Archangel, 31° at Aberdeen, 32° at Nairn, 42° at Loughborough, 36° at Paris. Rising later to more than 50° over Ireland and England, to 58° at Dungeness and Jersey, 63° in the west of France, 73° in the Azores.

Wind Easterly and South-Easterly in Norway, very variable from Southward to Westward over other parts of north-western Europe and blowing with great strength over the Irish Sea. Very light and variable over Russia, central and south-western Europe. A cyclonic circulation over the Mediterranean. The cyclonic circulation off the north-west of our Islands moving North-Eastwards later and fresh to strong South-Westerly to Westerly winds setting in over England.

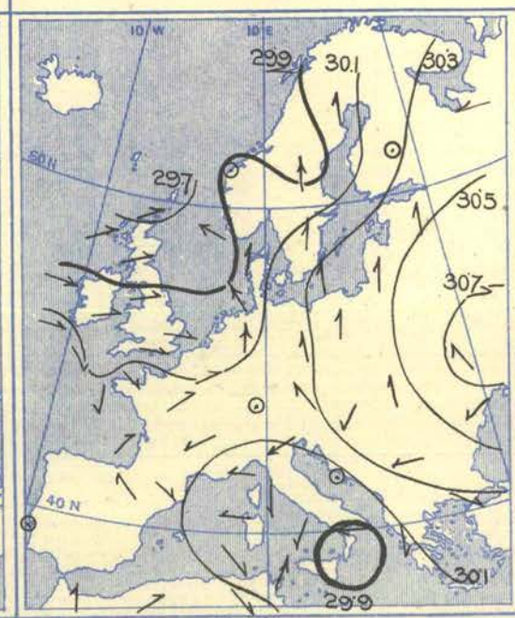
Barometer highest, 30·8 ins. and more to 30·4 ins. over Russia and exceeding 30·3 ins. in a col extending across central Germany and France to the Spanish Peninsula and the Atlantic. Lowest, below 29·8 ins. in a minimum off our north-west coasts; below 29·9 ins. in another (small one) over the Skager Rack, and below 30·0 ins. in a third, near Cagliari. The areas of low pressure in the north-west and north moving north-eastwards later, that over the Mediterranean spreading out and moving south-eastwards.

Friday, 25th October.

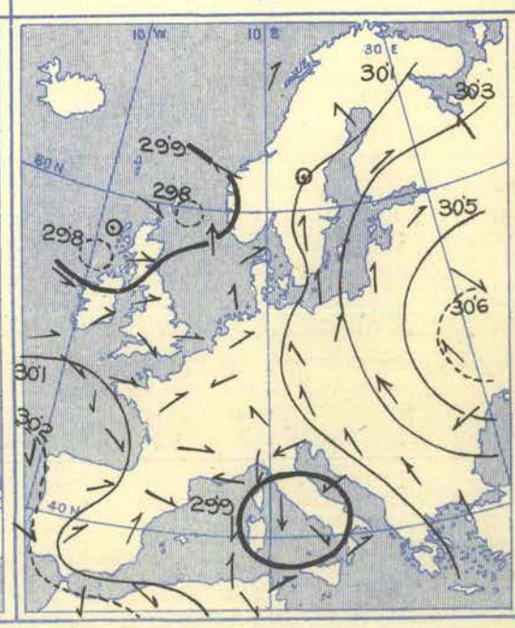
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over Russia; fine and bright over Scotland generally, and in Ireland, but showery in a few localities; unsettled in Norway and Sweden; dull and gloomy over England and France, with rain in a few places; unsettled and rainy over the Mediterranean. Rain later in all the western and north-western parts of the Kingdom, as well as in many parts of France and on the eastern shores of the North Sea; fog inclined to increase over England later.

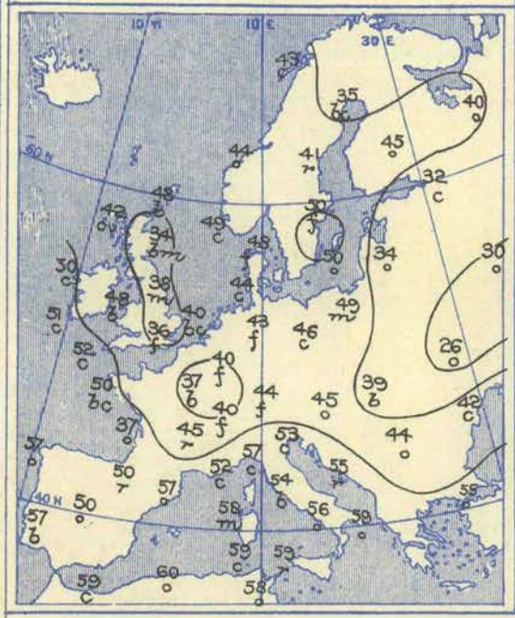
Temperature fallen over France and England; risen in Scotland; changed very irregularly over the Continent. Morning readings highest, 61° at Brindisi and La Calle, 60° at Barcelona, 55° at Rochefort, 52° at Scilly, 50° at Valencia. Lowest, 17° at Archangel, 24° at Kharkov, 27° at Kieff, 37° at Aberdeen, 38° at Stornoway, 40° at Donaghadee. Rising later to 50° or more in nearly all parts of the Kingdom, but only 49° at Malin Head and Nairn; touching 61° at Biarritz, 67° at Perpignan.

Wind very light and anticyclonic over Russia, and very light over Spain and central France. Light Westerly over the British Islands; strong Southerly over the countries lying to the eastward of the North Sea. Becoming strong from South-West later on our north-western coasts, but falling light over the Baltic and neighbouring countries.

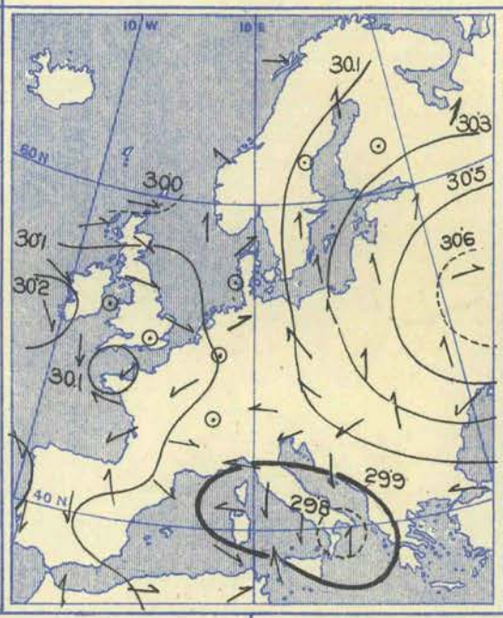
Barometer highest, 30·7 ins. and more to 30·3 ins. over Russia; 30·28 ins. at Lisbon. Lowest, 29·69 ins. at Sumburgh Head, and several shallow secondaries in our neighbourhood; 29·9 ins. to 30·1 ins. over the Mediterranean. A new minimum appearing later off our north-west coasts. Barometer falling a little in Russia.

Saturday, 26th October.

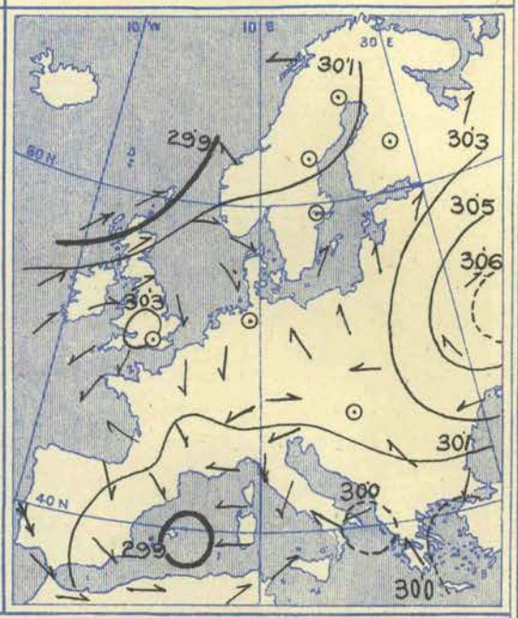
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over Russia and central Europe, but dull in some places, clear in others; fine, but very foggy, over England; fine over Scotland, Ireland, Devon, Cornwall and Brittany. Rather unsettled over the Mediterranean, with rain at some stations. Rain later over Scotland, Ireland and the north of England—heavy at Sumburgh Head and Stornoway, and sporadically on the Continent. Bright sunshine great at our south-western stations—much dense fog in various parts of England, especially in London.

Temperature fallen fast over France, England and central Europe. Morning readings highest, 62° at Algiers, and above 55° at many Mediterranean stations, 57° at Corunna, 52° at Scilly, 51° at Valencia. Lowest, 21° at Kharkov, 30° at Moscow, 32° at St. Petersburg, 35° at Haparanda, 29° to 36° over many of the inland parts of Great Britain, 37° at Paris, 40° at Belfort. Rising later to between 50° and 58° over the United Kingdom generally, to 59° at Lorient, 63° at Nice, but not exceeding 42° in London.

Wind light and anticyclonic, but mainly Southerly over Russia, and South-Easterly to Easterly over central Europe; light and anticyclonic from the Northward over Ireland, the Bay of Biscay and Spanish Peninsula; very variable and light to calm over England and Belgium, Westerly in Scotland, Easterly in the south of France. The Westerly wind in Scotland increasing later and spreading Southwards, calm continuing over England.

Barometer highest, 30·6 ins. and more to 30·2 ins. over Russia; 30·3 ins. at Corunna and 30·2 ins. to 30·1 ins. over our own Western districts. Lowest, 29·99 ins. at Sumburgh Head; 29·79 ins. in the south of Italy and below 29·90 over Italy generally. Falling later at our Northern stations and a new depression appearing over the Mediterranean.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	36·9	+20·7	57	+33	BRIGHTON	29·4	+ 4·0	42	+ 6
STRATHPEFFER SPA	21·7	+ 3·0	33	+ 5	WORTHING	34·1	?	49	?
EDINBURGH	19·5	+ 2·9	29	+ 5	BOGNOR	38·9*	?	56*	?
MORPETH	30·8	?	45	?	WATERGATE (Emsworth)	36·6	?	52	?
NEWCASTLE-ON-TYNE	13·7	?	20	?	WESTBOURNE (Emsworth)	34·5*	+11·0	49*	+16
OSWALDKIRK (Yorkshire)	31·8	+14·3	46	+21	VENTNOR HOSPITAL	34·3	+ 8·7	49	+13
YORK	15·4	- 1·8	22	- 3	BOURNEMOUTH	30·5	?	44	?
LOWESTOFT	25·7	?	37	?	SOUTHPORT	28·1	?	41	?
HOLLESLEY BAY	28·9	?	41	?	RHYL	*	?	*	?
SHEFFIELD	9·2	?	13	?	COLWYN BAY	30·8	?	45	?
WORKSOP	14·9	- 2·6	22	- 3	ABERDOVEY	36·9*	?	53*	?
THURCASTON (Leicestershire)	24·4	+ 6·4	35	+ 9	TENBY	38·0	+16·0	54	+22
MARGATE	38·0	+16·0	54	+23	NEWQUAY				
BROADSTAIRS	27·8	?	40	?	TORQUAY	30·2	+ 7·5	43	+12
EASTBOURNE	27·2	+ 1·6	39	+ 3	CAHIR (Duneske)	23·1*	?	33*	?
					GUERNSEY	29·3*	+ 5·7	41*	+ 7

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Aug. 24th, 1901	Clifton	81	52	76·3	53·9	64·6	+ 4·4	158	0	0	—	- 0·78	—	—	—	—
" " " " "	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	62·9	?	64	?
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	85·5	?	86	?
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	85·4	?	86	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 44.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 2ND, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the thirty years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 260.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	27	51·9	38·2	44·8	1 above	36	+ 8	11	- 1	2294	+378	605	-12
	1. SCOTLAND, EAST	64	23	52·5	38·6	45·3	2 above	37	+ 9	10	- 6	2436	+176	722	+46
	2. ENGLAND, N.E.	61	30	53·8	43·6	48·6	3 above	46	+12	0	- 9	2764	+286	537	- 2
	3. ENGLAND, EAST	63	29	55·4	42·5	48·8	3 above	48	+10	0	-10	3032	+165	575	- 15
	4. MIDLAND COUNTIES	61	27	54·3	40·8	47·3	2 above	42	+ 6	3	- 9	3000	+192	614	+ 8
	5. ENGLAND, SOUTH	61	26	55·1	44·0	49·4	2 above	52	+ 4	0	- 6	3204	+ 62	451	+21
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	31	53·5	43·6	48·4	3 above	45	+12	0	- 9	2590*	+176	493	+25
	7. ENGLAND, N.W.	63	30	54·3	43·6	48·8	3 above	48	+10	0	- 6	2865	+213	459	+27
	8. ENGLAND, S.W.	58	29	54·6	44·5	49·4	2 above	52	+ 5	0	- 5	3142	+215	378	+43
	9. IRELAND, NORTH	60	38	53·7	46·1	49·8	4 above	55	+19	0	- 8	2575	+ 25	392	- 1
	10. IRELAND, SOUTH	62	38	55·3	46·8	50·9	4 above	62	+18	0	- 6	2969	+ 69	335	+51
	—CHANNEL ISLANDS	61	39	56·4	47·9	52·0	1 above	70	+ 3	0	- 1	3610	+181	160	+37

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 260.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	13	1 more	190	0	34·6	- 5·7	23	+10	37	+16	1218	+153	30	+ 3
	1. SCOTLAND, EAST	3	5	2 less	166	+ 3	22·6	- 3·6	12	- 4	19	- 6	1377	+158	34	+ 3
	2. ENGLAND, N.E.	2	1	5 less	139	-12	17·6	- 3·7	16	+ 4	25	+ 7	1444	+225	36	+ 6
	3. ENGLAND, EAST	1	1	6 less	129	-22	15·5	- 5·6	38	+16	56	-24	1698	+164	41	+ 4
	4. MIDLAND COUNTIES	2	1	6 less	131	-14	20·8	- 2·6	22	+ 7	33	+12	1418	+155	37	+ 4
	5. ENGLAND, SOUTH	1	less than ½	7 less	122	-20	20·1	- 3·3	33	+11	49	+16	1732	+172	43	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	7†	6 less	173	- 4	39·1	- 3·1	19	+ 4	29	+ 5	1461	+189	37	+ 5
	7. ENGLAND, N.W.	2	2	7 less	152	- 8	21·9	- 7·1	23	+ 6	34	+ 9	1599	+277	40	+ 7
	8. ENGLAND, S.W.	2	1	10 less	142	-23	27·8	- 5·5	12	- 9	18	-13	1627*	+ 62	41	+ 1
	9. IRELAND, NORTH	3	10	2 more	191	+ 3	30·2	+ 0·3	18	+ 1	27	+ 1	1266	+ 88	32	+ 2
	10. IRELAND, SOUTH	4	8	1 less	163	- 8	30·1	- 3·2	14	- 5	22	- 7	1383	+ 39	35	+ 1
	— CHANNEL ISLANDS	2	less than ½	9 less	161	- 3	24·7	- 1·8	22	+10	32	+16	1790	+ 26†	47	+ 1

* This value has been altered owing to the receipt of further information.

† The corresponding values in last week's report should read "10" and "16" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was unsettled, rainy, and squally in almost all parts of our Islands at the commencement of the period, but after Tuesday the conditions gradually improved, until towards the end of the week they became very fine and dry generally. Fog, however, set in over some parts of central England.

Temperature was above the mean in all districts; in Scotland N. and the Channel Islands the excess was only 1°, but in most other localities it was 2° or 3°, while in Ireland it amounted to 4°. The highest of the maxima were recorded either on Sunday or Monday, and ranged from 64° in Scotland E. to 58° in England S.W. The lowest of the minima which were registered during the early days of the week in the south, and later on in the north, varied from 23° in Scotland E., 26° in England S., and 31° in Scotland W. to 38° in the Irish districts and to 39° in the Channel Islands.

Rainfall exceeded the mean in Scotland N. and Ireland N., but was less in all other districts. Over the greater part of England the fall was extremely slight, some localities being almost rainless.

Bright Sunshine varied considerably in different districts, in some cases showing a decided excess, and in others an equally marked deficiency. The percentage of the possible duration ranged from 56 in England E. and 49 in England S., to 19 in Scotland E. and 18 in England S.W.

Barometer and Wind. At the commencement of the week an anticyclone covered the south of our Islands and all the adjacent parts of the Continent, while the centre of a large and rather deep cyclonic system lay to the northward of Scotland. The resulting South-Westerly wind current blew with considerable strength over the northern parts of the British Islands generally, and on some of those coasts reached the force of a gale. By Tuesday morning the distribution had undergone a rapid and complete change, the low pressure area in the north having entirely disappeared and its position having been taken by an anticyclone, while between the latter and the southern high pressure system, *i.e.*, over Ireland and the west of England, there was a shallow cyclonic area. The latter and also the southern anticyclone quickly dispersed, and during the remainder of the week the northern high pressure area increased in intensity and moved eastwards and south-eastwards to Norway and Denmark. The winds over our Islands consequently became Easterly; during the middle of the week they blew strongly, or with the force of a gale on our southern and south-eastern coasts, but subsequently decreased greatly in strength, and over all but our most south-eastern counties veered to the South-Eastward.

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II.—DATA from which the SUMMARY on page 259 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	35	48·7	41·7	45·1	+ 1·1	23	1	2	0.38	− 0·51	*	*	*	*
	Stornoway	58	31	53·1	34·9	43·7	− 0·1	42	20	4	1·23	+ 0·03	27·4	+12·6	43	+18
	Wick	62	33	52·0	41·9	46·8	+ 2·7	34	0	2	0·45	− 0·23	*	*	*	*
	Lairg §	61	27	54·4	34·9	44·4	+ 2·9	47	20	2	0·94	+ 0·09	*	*	*	*
	Glencarron §	55	29	50·3	37·2	43·6	+ 0·8	31	13	2	2·31	+ 0·20	*	*	*	*
	Fort Augustus §	58	29	52·9	37·4	44·9	+ 0·8	40	13	4	1·26	+ 0·29	27·0	+17·5	43	+28
	Fort William §	56	34	51·7	39·5	45·4	+ 0·4	34	7	2	2·35	+ 0·58	25·8	+13·5	41	+22
1. SCOTLAND, E.	Nairn	61	26	52·6	33·6	42·8	− 0·7	41	24	4	0·96	+ 0·42	*	*	*	*
	Aberdeen	61	33	52·6	43·4	47·9	+ 3·4	41	0	2	0·39	− 0·30	9·6	− 8·1	15	−13
	Braemar §	59	23	49·8	34·1	41·7	+ 1·3	22	31	3	0·38	− 0·50	*	*	*	*
	Ochtertyre §	58	32	52·1	41·1	46·4	+ 2·9	35	3	3	0·53	− 0·45	*	*	*	*
	Leith	64	36	54·7	41·9	48·1	+ 2·6	43	0	4	0·63	+ 0·16	*	*	*	*
	Marchmont §	57	34	53·0	37·6	45·1	+ 2·0	40	12	2	0·35	− 0·45	13·3	− 2·5	21	− 4
2. ENGLAND, N.E.	Alnwick Castle	60	33	53·3	42·4	47·7	+ 3·0	40	0	2	0·20	− 0·56	*	*	*	*
	Durham	58	30	52·4	42·6	47·4	+ 3·1	38	0	4	0·25	− 0·43	15·4	− 1·0	24	− 1
	Shields	61	36	53·7	45·6	49·5	+ 4·1	53	0	3	0·22	− 0·36	*	*	*	*
	Scarborough ℳ	58	39	54·5	46·0	50·1	+ 4·0	57	0	0	—	− 0·69	21·0	?	32	?
	Spurn Head	58	42	54·7	46·3	50·4	+ 3·2	59	0	1	0·03	− 0·50	*	*	*	*
	Fulbeck (Lincolnshire)	59	? 31	54·3	38·9	46·4	+ 1·8	44	9	1	0·02	− 0·48	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	59	30	55·3	41·4	48·1	+ 2·8	45	2	1	0·05	− 0·58	28·1	+10·5	43	+16
	Yarmouth	57	36	54·0	45·0	49·4	+ 2·7	52	0	1	0·04	− 0·61	*	*	*	*
	Geldeston	63	29	56·1	42·7	49·2	+ 2·7	50	0	1	0·09	− 0·51	37·1	+16·7	55	+25
	Cambridge	63	29	57·8	39·2	48·2	+ 2·4	55	8	1	0·05	− 0·45	41·2	+21·5	61	+32
	Felixstowe	59	36	55·5	46·7	51·0	+ 4·6	63	0	1	0·09	?	45·9†	?†	69†	? †
	Rothamsted	55	29	53·7	39·9	46·6	+ 1·5	41	6	1	0·05	− 0·60	34·3	+14·4	51	+21
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	27	57·0	38·0	47·2	+ 2·5	53	11	3	0·08	− 0·47	*	*	*	*
	Loughborough	59	27	54·7	39·6	46·9	+ 1·5	44	7	1	0·05	− 0·51	*	*	*	*
	Colly Weston (Stamford)	58	34	54·4	41·4	47·7	+ 3·2	42	2	1	0·10	?	*	*	*	*
	Cheadle ℳ	57	37	52·9	41·8	47·2	+ 3·1	37	1	2	0·04	− 0·70	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	55	35	52·9	42·4	47·5	+ 2·2	39	0	1	0·06	− 0·56	15·3	?	24	?
	Churchstoke ℳ	59	34	53·0	41·9	47·3	+ 2·8	38	0	2	0·15	− 0·62	16·1	− 0·6	24	− 1
	Hereford (Belmont) ℳ	60	30	54·7	41·1	47·7	+ 1·9	44	3	0	—	− 0·62	*	*	*	*
	Cirencester	56	30	53·7	41·3	47·3	+ 2·7	40	2	1	0·04	− 0·66	26·5	+ 8·1	40	+13
	Oxford	57	30	55·0	39·9	47·2	+ 1·9	45	6	1	0·05	− 0·49	28·1	+ 9·6	42	+14
5. ENGLAND, S	London	61	31	56·4	40·7	48·3	+ 1·3	50	4	1	0·01	− 0·55	25·6†	+12·1†	38†	+18†
	Swarraton (Alresford) ℳ	57	26	54·6	40·0	47·1	+ 1·8	44	6	1	0·03	− 0·73	*	*	*	*
	Dungeness	60	35	55·4	46·0	50·6	+ 2·2	60	0	1	0·02	− 0·65	35·1	?	52	?
	Hastings (St. Leonards)	58	42	54·4	46·3	50·2	+ 1·9	57	0	2	0·04	− 0·78	36·9	+14·7	55	+22
	Southampton	60	31	56·8	43·2	49·8	+ 1·8	55	0	1	0·01	− 0·76	30·2	+ 9·6	45	+15
	Portland Bill	58	45	55·7	48·3	51·9	+ 3·1	69	0	2	0·02	?	*	*	*	*
	Shaftesbury ℳ	57	40	52·4	43·7	47·9	+ 2·7	41	0	2	0·03	− 0·80	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	33	53·8	39·3	46·3	+ 0·8	41	8	3	0·87	− 0·90	*	*	*	*
	Glasgow	59	38	52·3	44·8	48·4	+ 4·1	45	0	2	0·32	− 0·54	13·4	+ 2·0	21	+ 3
	Glenlee §	60	31	53·6	42·0	47·6	+ 3·5	39	0	3	0·59	− 0·77	*	*	*	*
	Douglas (Isle of Man)	58	46	54·4	48·4	51·3	+ 4·8	65	0	3	0·81	− 0·23	23·6	+ 4·4	36	+ 7
7. ENGLAND, N.W.	Newton Reigny	59	30	53·3	37·9	45·4	+ 2·1	41	11	2	0·33	?	27·1	?	42	?
	Stonyhurst	58	40	52·0	44·0	47·9	+ 3·1	41	0	3	0·37	− 0·72	19·1	+ 3·9	29	+ 5
	Blackpool ℳ	58	37	54·7	44·4	49·4	+ 3·1	52	0	3	0·11	− 0·76	21·8	+ 6·5	33	+ 9
	Manchester (Prestwich)	59	36	53·8	42·9	48·2	+ 3·0	43	0	2	0·12	− 0·73	18·3	?	28	?
	Liverpool Obsy. (Bidston)	61	37	54·4	44·6	49·4	+ 2·9	52	0	1	0·02	− 0·71	20·4	?	31	?
	Chester (Hawarden Bridge)	63	33	56·6	42·1	49·1	+ 2·0	50	0	0	—	?	*	*	*	*
	Llandudno ℳ	61	44	55·9	47·2	51·4	+ 3·2	66	0	1	0·03	− 0·82	24·5	+ 8·6	37	+13
	Holyhead	56	42	53·7	45·9	49·7	+ 1·2	54	0	3	0·34	− 0·61	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	35	53·7	42·6	48·0	+ 2·6	42	0	4	0·20	− 1·02	*	*	*	*
	Pembroke	56	41	54·7	47·1	50·8	+ 1·4	62	0	2	0·10	− 0·83	16·6	− 2·6	25	− 4
	Clifton	57	39	54·7	45·0	49·7	+ 3·3	54	0	1	0·05	− 0·78	*	*	*	*
	Bath	58	29	55·9	41·6	48·5	+ 1·5	47	1	2	0·07	?	22·9	?	34	?
	Arlington (N. Devon)	55	38	52·6	42·1	47·2	+ 0·7	36	0	3	0·27	− 1·11	*	*	*	*
	Cullompton ℳ	58	31	54·7	42·5	48·4	+ 2·2	45	0	1	0·02	− 0·84	11·7	− 6.0	17	− 9
	Falmouth	57	42	54·9	48·5	51·6	+ 2·0	67	0	0	—	− 1·22	2·3	−19·6	3	−29
	Plymouth	58	39	55·2	46·4	50·7	+ 1·6	61	0	0	—	− 0·84	10·3	− 9·5	15	−14
9. IRELAND, N.	Malin Head	59	43	52·7	46·0	49·3	+ 2·3	51	0	3	0·89	?	*	*	*	*
	Edenfel (Omagh)	59	38	52·4	42·9	47·5	+ 3·8	39	0	4	1·19	+ 0·34	*	*	*	*
	Blacksod Point	59	44	54·0	47·7	50·8	+ 2·9	62	0	4	1·11	?	*	*	*	*
	Markree Castle	60	39	54·9	45·6	50·1	+ 4·9	57	0	3	1·33	+ 0·39	17·3	+ 0·5	26	+ 1
	Armagh	60	42	54·0	46·1	49·9	+ 5·0	55	0	2	0·85	+ 0·21	17·6	+ 0·3	27	+ 1
	Donaghadee	60	46	54·1	48·0	51·0	+ 4·5	63	0	3	0·53	− 0·20	*	*	*	*
10. IRELAND, S	Dublin	62	45	56·3	48·6	52·3	+ 5·0	72	0	3	0·97	+ 0·34	19·3	− 1·8	29	− 3
	Parsonstown	62	38	55·7	42·9	49·1	+ 3·8	50	0	4	0·75	+ 0·08	16·9	− 2·1	26	− 3
	Kilkenny	60	41	54·9	45·7	50·2	+ 3·8	57	0	4	0·66	− 0·04	*	*	*	*
	Roche's Point	57	45	54·7	49·7	52·1	+ 3·0	71	0	4	0·67	− 0·35	*	*	*	*
	Valencia	58	44	55·7	48·9	52·2	+ 2·7	71	0	4	0·95	− 0·35	9·0	−10·7	13	−16
	Killarney															*
	Foynes	61	38	54·7	44·8	49·6	+ 2·6	53	0	3	0·58	− 0·34	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	48	56·0	50·1	53·0	+ 1·4	77	0	3	0·07	− 0·77	0·4	?	1	?
	Jersey	61	39	56·7	45·6	51·0	− 0·3	63	0	1	0·01	− 0·98	35·4	+11·7	52	+18

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

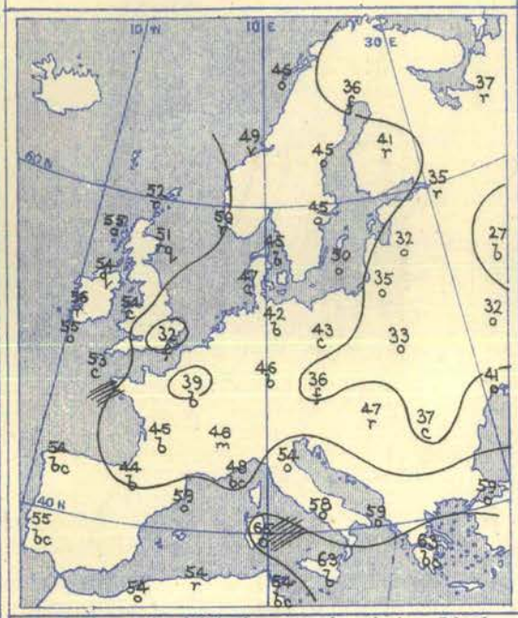
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

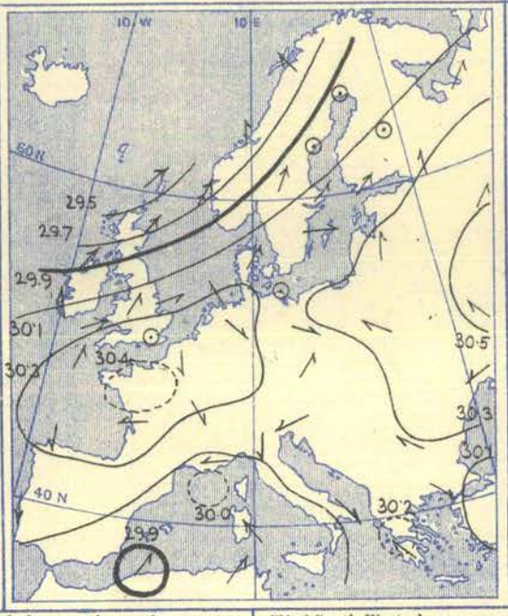
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 27th October

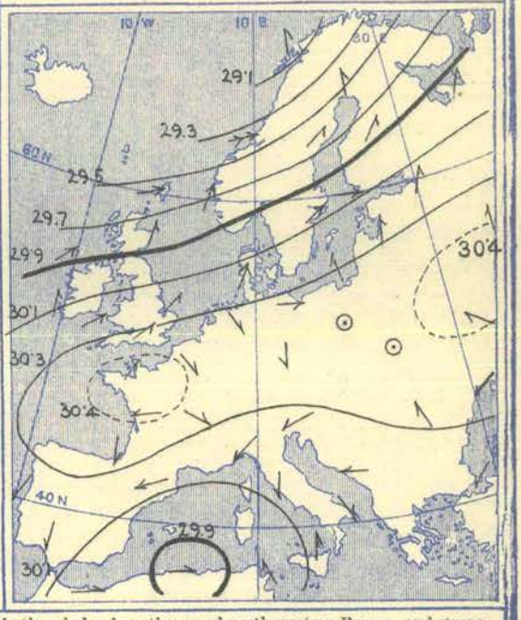
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the west and north of our Islands, and also over the northern parts of the Continent, with rain at several stations. Fine over the greater part of England, France, Spain, Germany and the Netherlands, but with fog in places; dull over Austria and Italy, with rain at Buda Pesth. Rain falling later over the whole of Ireland and the northern parts of Great Britain, as well as in Scandinavia, the amount being considerable in the west of Norway.

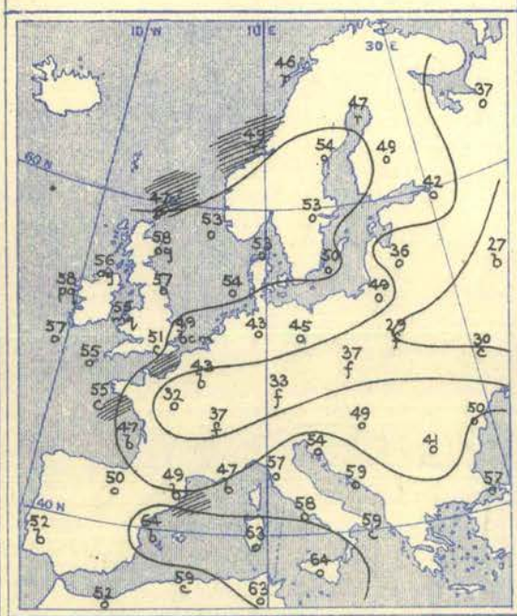
Temperature risen considerably in all the more western and northern parts of our Islands, and to a less extent in Norway; fallen in most other parts of Europe. Morning readings highest, 65° at Cagliari and 63° at Palermo and Patras; above 55° at most of the Mediterranean and Adriatic stations, as well as at Nairn and Blacksod Point; above 50° in the west and north of our Islands generally. Lowest, (1) 27° at Moscow and 32° at Riga and Kiev; (2) 32° in London and at Bath, and 34° at Oxford. Rising during day to between 55° and 60° in most parts of the United Kingdom, and to 62° at Wick; exceeding 60° over southern Europe generally, and reaching 74° at Palermo.

Wind South-Westerly over nearly the whole of northern and north-western Europe, and strong to a gale in force in the north of Ireland and the south of Norway. Variable in Germany and Austria; Easterly or North-Easterly over France, Spain and northern Italy; variable in Greece and southern Italy. No important change occurring during day.

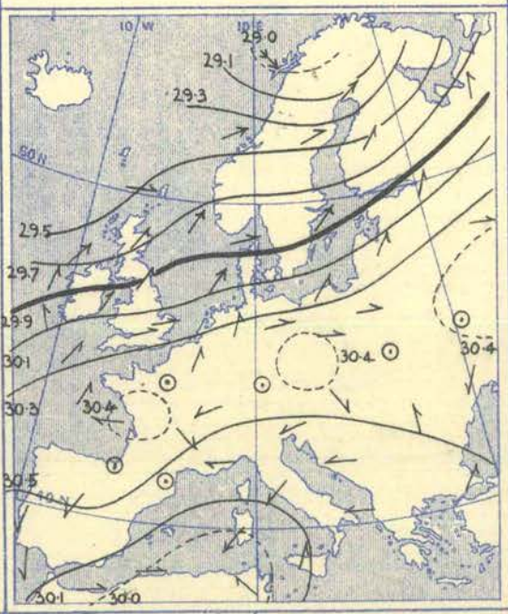
Barometer highest, 30·6 ins. and upwards over the southern parts of Russia; 30·4 ins. and upwards in the north-west of France; 30·2 ins. and upwards in a large anticyclone covering all but the southern and extreme north-western parts of Europe. Lowest, 29·5 ins. and less in a depression off the north of Scotland; 29·9 ins. and less in a shallow disturbance over Algeria. Depression off north of Scotland subsequently moving north-eastwards, but new disturbance beginning to approach our extreme western coasts in evening.

Monday, 28th October.

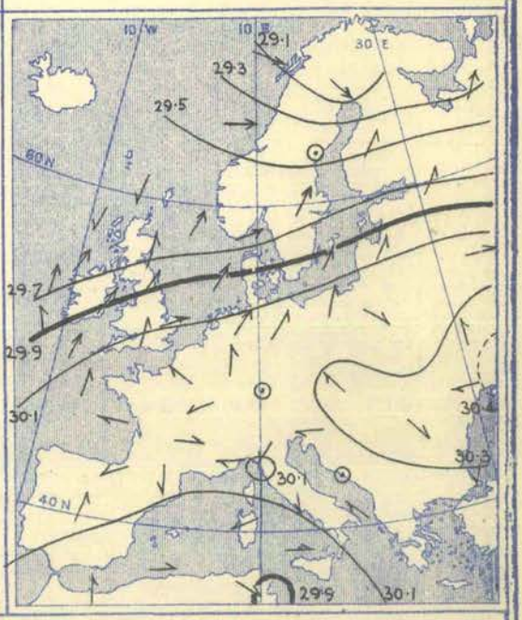
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair in the eastern and southern parts of England, as well as at many of the Spanish, French and German stations. Cloudy or dull elsewhere, with rain in the extreme north of Scotland and the west and north of Scandinavia; rain falling also at Uleaborg and Helsingfors, and fog reported in many parts of Austria and eastern Germany; considerable quantities of rain falling later in Ireland, Scotland and the west of Norway, and also in western Algeria.

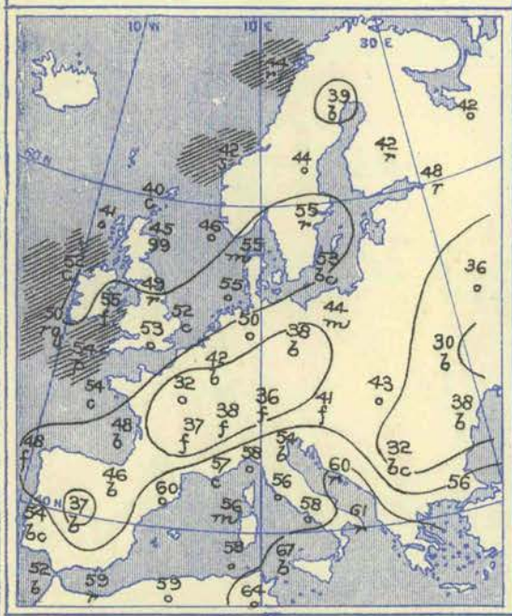
Temperature risen generally, but fallen in many parts of France, Spain and western Germany. Morning readings highest, 72° at Sfax, 64° at Barcelona and Palermo, and 63° at Cagliari and Tunis; above 55° over Ireland and the northern parts of Great Britain, and touching 60° at Leith. Lowest, (1) 27° at Moscow, 29° at Warsaw, and 30° at Kiev; (2) 32° at Paris and 33° at Munich. Rising during day to 60° and upwards in many parts of the United Kingdom, and to 65° at Oxford; exceeding 65° in Spain, southern Italy and the extreme south of France, and reaching 75° at Palermo.

Wind South-Westerly over the whole of northern and north-western Europe, and strong in force in many places; blowing a gale from the Westward in the west of Norway. Calm or variable over Austria, Germany and central France; light to moderate from between North and East over southern Europe. Subsequently veering to the Northward in the extreme north of Scotland; no important change occurring elsewhere.

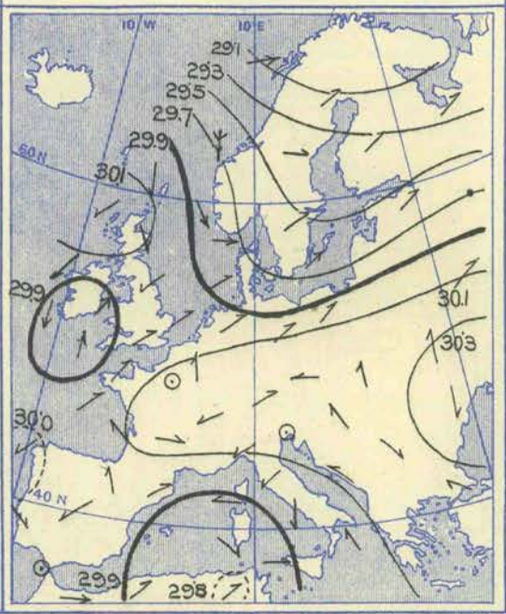
Barometer highest, 30·4 ins. and upwards in the south of Russia, and also in the west of France; 30·2 ins. and upwards in an anticyclone stretching from west to east across all the more central parts of Europe. Lowest, 29·0 ins. and less in a deep depression with its centre over the north of Norway; gradients rather steep over northern and north-western Europe generally. Depression subsequently moving north-eastwards, and barometer rising in the north of Scotland.

Tuesday, 29th October.

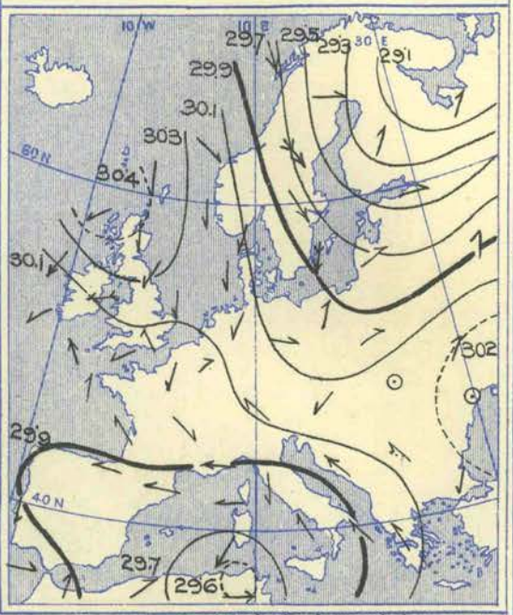
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of the United Kingdom, with rain at many of our western and northern stations. Fine over the Netherlands, Spain, and the west of France; cloudy or dull in most other parts of the Continent, with fog over Austria, south Germany and central France, and with rain at several of the Adriatic stations as well as in many parts of Finland and Scandinavia; snow reported at Christiansund. Rain falling later over the greater part of our Islands and France. Large quantities reported over Italy, Algeria and the extreme south of France—as much as 2·0 ins. at Pesaro and Sfax; thunderstorms occurring at some of the Algerian stations.

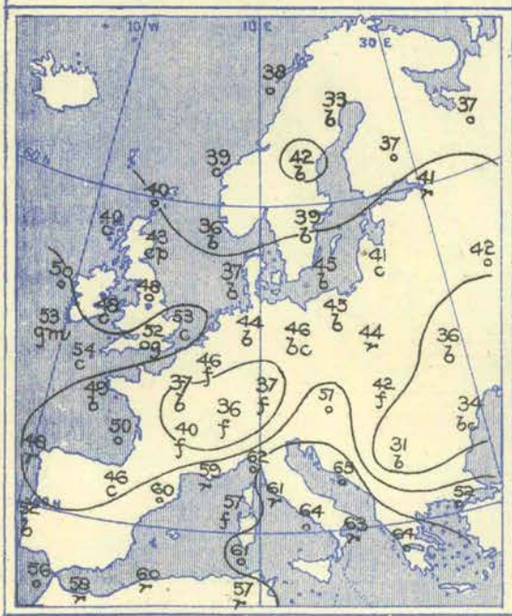
Temperature fallen in our Islands and the northern parts of the Continent; changed irregularly elsewhere. Morning readings highest, 67° at Palermo, 64° at Sfax, and 61° at Brindisi; above 55° at most of the Mediterranean and Adriatic stations Lowest, 22° at Kharkov, 27 at Nicolaieff and 30° at Kiev; lowest in our Islands, 40° at Sumburgh Head and 41° at Stornoway. Rising during day to 55° and upwards at most of the English and Irish stations and to 59° at Loughborough; exceeding 65° in many parts of southern Europe.

Wind Southerly or South-Westerly over the greater part of England and strong in force on our south-west coasts; Northerly or North-Easterly in Ireland and Scotland. Strong to a gale from between North and West over the Norwegian coasts; South-Westerly over Sweden, Denmark, the Baltic and northern Russia. Light and variable over Spain, France, Germany, and Austria; varying between North and East in Italy. Subsequently shifting to the North-Eastward or Eastward in most parts of the United Kingdom; veering to the Northward or North-Westward in Sweden and increasing to a gale.

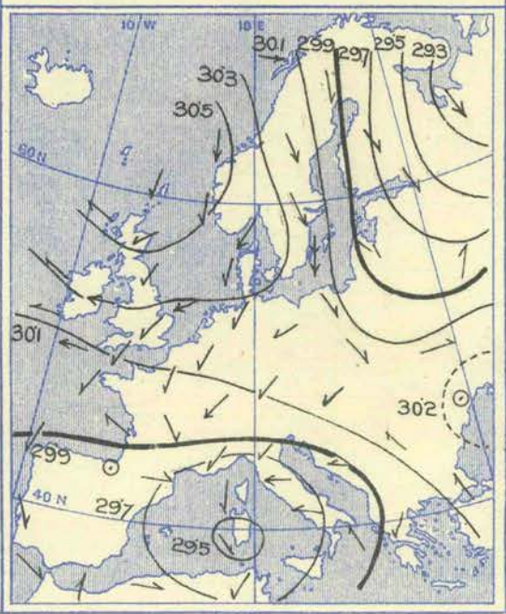
Barometer highest, 30·4 ins. and upwards in the extreme south of Russia; 30·1 ins. and upwards in an anticyclone lying over the whole of eastern and central Europe, and also in another system spreading from the Atlantic over the north of Scotland. Lowest, 29·1 ins. and less in a large and rather deep depression over the extreme north of Scandinavia; 29·9 ins. and less in a shallow disturbance over the western parts of the United Kingdom. Scandinavian depression subsequently travelling eastwards; disturbance over our west coasts moving southwards and filling up.

Wednesday, 30th October.

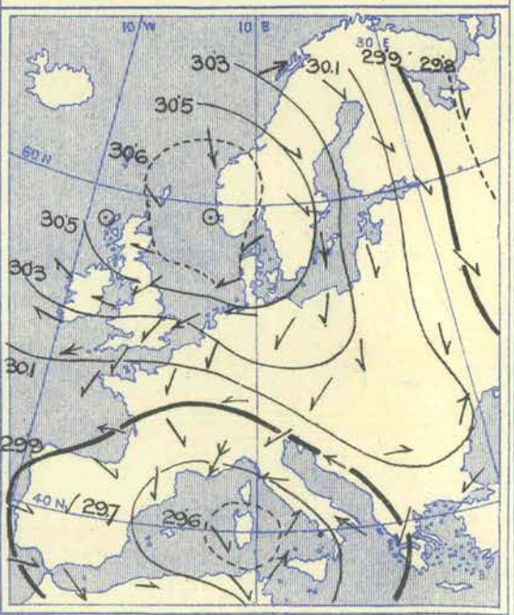
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Scandinavia and Denmark, but cloudy in most parts of the United Kingdom and over the greater part of the Continent, with showers at Aberdeen and Roche's Point, and steady rain at Cape Grisnez, and also at several of the southern European stations, and fog over Belgium and Germany. Slight rain later at Leith and Portland Bill, but larger quantities over Italy and the south of France, as much as 2·60 ins. being measured at Turin, and 1·62 ins. at Pesaro.

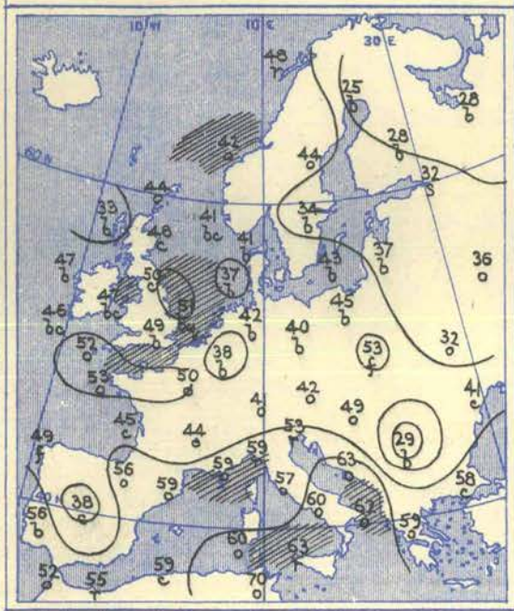
Temperature fallen in most parts of England and Ireland as well as over northern Europe; risen elsewhere. Morning readings highest, 65° at Lésina, 64° at Patras and Naples, 63° at Brindisi and Pesaro, above 60° over the Mediterranean generally. Lowest, (1) 24° at Charkow, 26° at Nicolaieff, and 31° at Hermanstadt; (2) 33° at Haparanda, 36° at Skudesnaes, 37° at Archangel and Kuopio, and 38° at Bodö and Karlstad. Rising during day to 55° and upwards at most of the English and Irish stations, and to 59° at Loughborough, exceeding 60° over Italy and the south of France, reaching 68° at Nemours and touching 70° at Oran.

Wind Easterly or North-Easterly over nearly the whole of western Europe, blowing strongly on exposed parts of our coasts. Northerly over northern Europe, strong in force in many places, with a gale at Wisby. A cyclonic circulation shown over the Mediterranean, but calm or nearly so over south-eastern Europe. Increasing to a fresh gale in the Straits of Dover later, but no material change elsewhere.

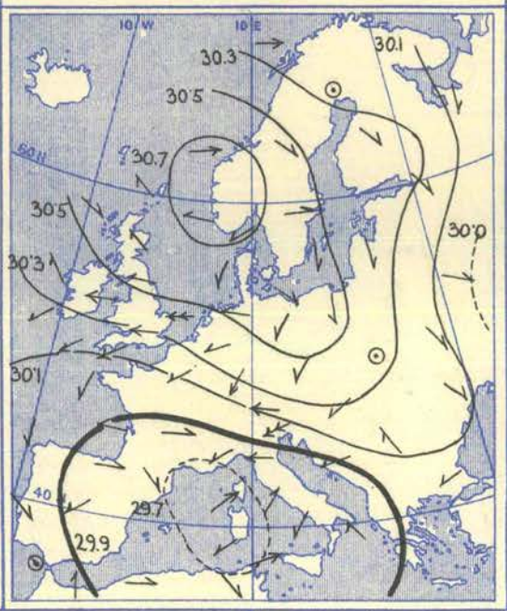
Barometer highest, 30·5 ins. and upwards over Scotland and the northern part of the North Sea, and 30·2 ins. and upwards over the south of Russia. Lowest, 29·3 ins. and less over the White Sea, and 29·5 ins. and less in a well-marked minimum lying over Sardinia. No important change later, but anticyclone over North Sea inclined to spread southwards.

Thursday, 31st October.

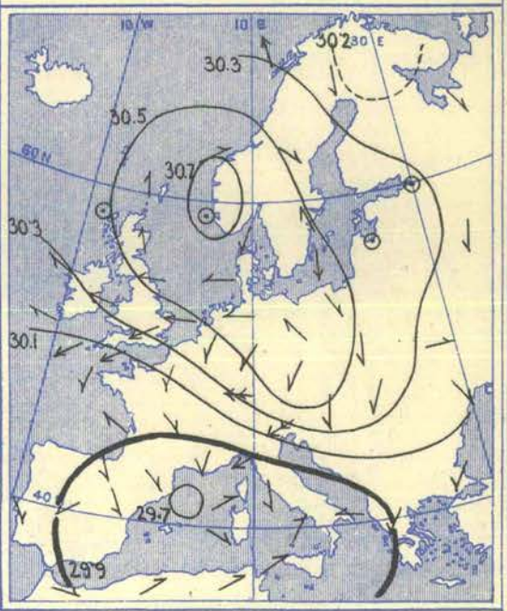
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over north-western Europe generally, but dull on our own extreme north and north-west coasts, and also in the west of Norway, with rain at Bodö. Dull over France and all the more southern parts of the Continent, with rain over northern Italy, as well as at Palermo and Trieste. Rain falling later in most parts of southern Europe—heavily over northern Italy and the south of France—as much as 1·9 in. at Turin.

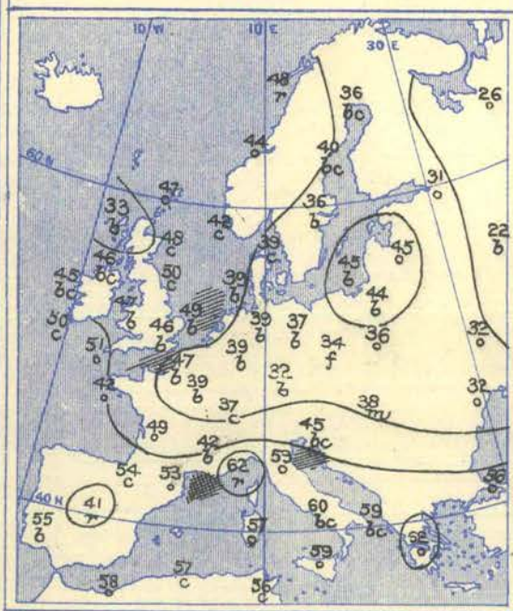
Temperature risen at most of our own northern stations, and also in Norway and in France; fallen elsewhere. Morning readings highest, 70° at Tunis, 63° at Lésina and Palermo, and 62° at Brindisi; above 55° at most of the Mediterranean and Adriatic stations. Lowest, (1) 25° at Uleaborg and 28° at Archangel and Kuopio; (2) 29° at Hermanstadt. Lowest in our Islands, 30° at Nairn and 33° at Stornoway. Rising during day to between 50° and 55° in most parts of the United Kingdom, and to 57 at Oxford; exceeding 60° over southern Europe generally, and reaching 68° at Cagliari and 74° at Palermo.

Wind Easterly or North-Easterly over western and central Europe generally, and also in Italy and Greece. Strong to a gale in force on our own eastern and southern coasts, as well as in south Germany and the east of France. Light from the South-Eastward in Scotland and the north of Ireland. Light to moderate from the Northward or North-Westward over Sweden and Russia, and also over the Spanish Peninsula. No important change occurring during day.

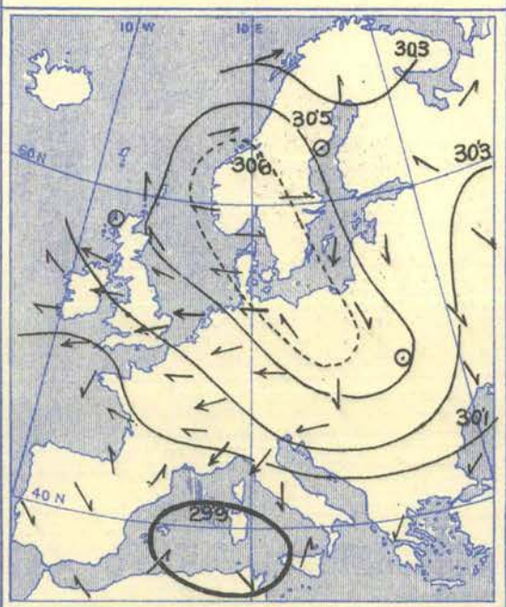
Barometer highest, 30·7 ins. and upwards over the southern parts of Norway; 30·3 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe. Lowest, 29·7 ins. and less in a shallow cyclonic area over Corsica, Sardinia, and the neighbouring parts of France and the Mediterranean; 30·0 ins. and less in another system over central Russia. No decided change taking place later.

Friday, 1st November.

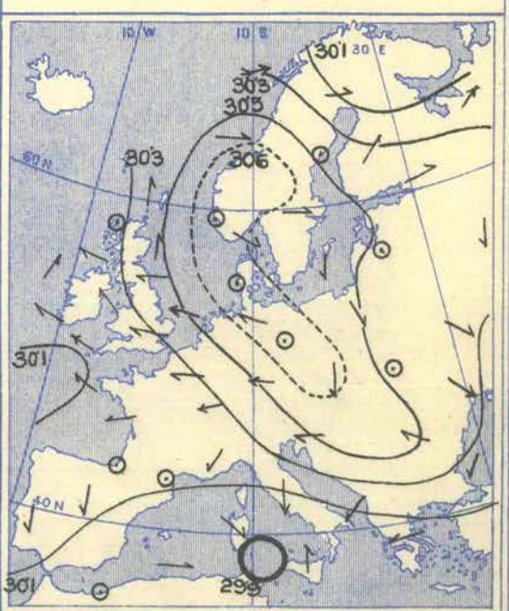
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent but dull on the west coast of Norway, with rain at Bodö, dull also in the west and south of France and in most parts of Spain and Italy, with rain at Nice, Toulon and Madrid. Slight rain falling later on some parts of our south-west coasts and larger quantities in the west of Norway and the extreme south of France; a heavy fall (1·4 in.) reported at Barcelona.

Temperature fallen in most places. Morning readings highest, 62° at Nice and Patras, 61° at Barcelona, and 60° at Athens; above 55° at most of the Mediterranean stations. Lowest, (1) 22° at Moscow, 26° at Archangel, and 30° at Uleaborg; (2) 30° at Nairn and 33° at Stornoway. Rising during day to 50° or slightly above it in most parts of the United Kingdom, and to 55° at Nairn, Leith, Valencia and Parsonstown. Exceeding 60° over southern Europe, and reaching 67° at Cagliari and 71° at Palermo.

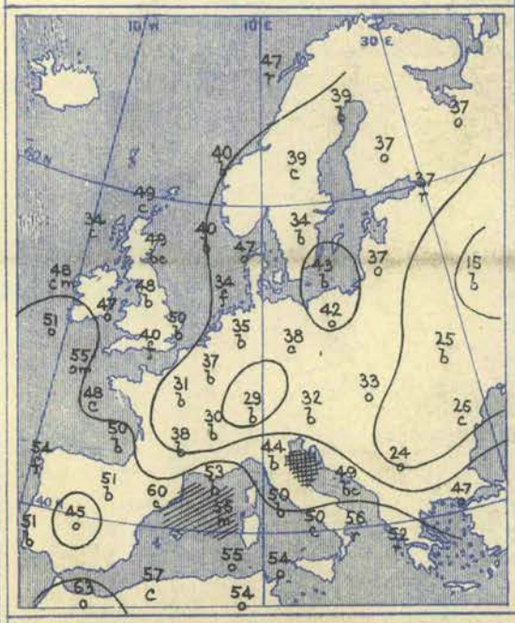
Wind Easterly or South-Easterly over western Europe generally and strong in force on many parts of the English coasts; light from the Southward in the north of Scotland; fresh to strong from the South-Westward in the west of Norway. Northerly or North-Westerly over Austria, eastern Germany and the southern parts of Sweden and Russia. Variable over southern Italy and also over the Spanish Peninsula. Northerly and North-Easterly winds setting in later over the last-mentioned regions; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards over Denmark, north Germany and the southern parts of Scandinavia; 30·2 ins. and upwards in an anticyclone covering the greater part of north-western, northern and central Europe. Lowest, 29·9 ins. and less in a large shallow depression over Tunis and the western parts of the Mediterranean. No important change occurring during day.

Saturday, 2nd November.

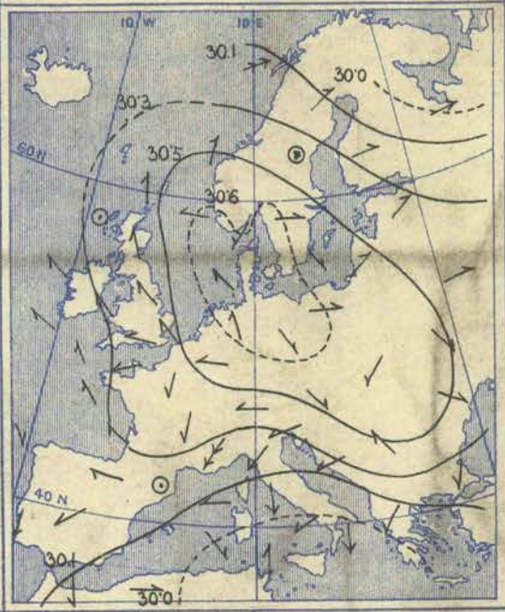
Temperature and Weather.

8 a.m.

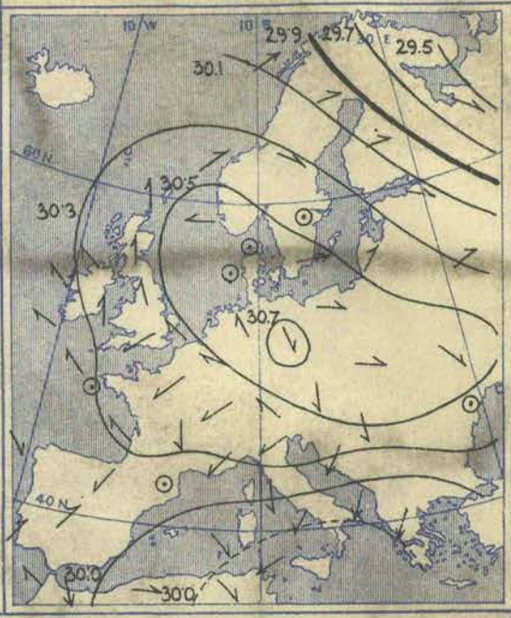


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western Europe as a whole, but cloudy or dull at several of our own western stations, as well as in some parts of Norway and northern Russia; rain falling at Bodö and St. Petersburg, and also at Brindisi and Patras. Slight rain falling later at a few of our own western and extreme northern stations, and larger quantities in some parts of Algeria and northern Italy—as much as 1·0 in. at Turin.

Temperature risen in the west and north of our Islands and also in Denmark, but fallen elsewhere. Morning readings highest, 63° at Oran, 60° at Barcelona, and 57° at Algiers; above 50° at most of the Mediterranean and Spanish coast stations, and also on our own south-west coasts. Lowest, 15° at Moscow, 24° at Hermanstadt, 25° at Kiev, and 26° at Kharkov; lowest in our Islands, 30° at Nairn and 32° at Loughborough. Rising during day to between 50° and 55° in most parts of the United Kingdom, and to 57° at Jersey. Exceeding 60° over Spain and the southern parts of France and Italy, and reaching 70° at San Fernando.

Wind light to moderate from the South-Eastward over western Europe generally, but Easterly over central England. North-Easterly over southern Europe, and strong to a gale in force over northern Italy and the Riviera. Westerly or South-Westerly over Scandinavia and northern Russia, with a gale at Bodö; light from the North-Westward over eastern Germany, Austria and the south of Russia. No important change occurring during day.

Barometer highest, 30·6 ins. and upwards over Denmark, north Germany and the south of Sweden; 30·3 ins. and upwards in an anticyclone embracing the greater part of Europe. Lowest, 30·0 ins. and less in two large systems—one lying over the extreme north of Russia and the other over the central parts of the Mediterranean and the neighbouring parts of Italy and Algeria. No decided change occurring later, but depression over Russia spreading southwards.

GENERAL NOTES.

At the commencement of the week a large anticyclone extended from west to east across all the more eastern and central parts of Europe, the weather in those regions being mostly fair (but foggy in places), and temperature rather low for the time of year. In the north-western and northern countries the conditions were affected by a cyclonic system of considerable size and depth, which moved in a north-easterly direction from the Atlantic, its centre passing across the north of Scandinavia on October 28th. The progress of the disturbance was attended by strong South-Westerly winds, with gales in many parts of Scandinavia, and by rainy and extremely mild weather, the thermometer in these Islands rising on October 27th or 28th to 60° and upwards in many places.

As the low pressure system moved eastwards the anticyclone over eastern Europe gave way. A new one soon appeared, however, in the rear of the depression, its borders spreading over Scotland from the northward on October 29th, and afterwards extending over the greater part of north-western, northern and central Europe. The wind now shifted to the Eastward or South-Eastward in all the western countries, a gale from the former direction being experienced on the east and south-east coasts of England on October 31st. Temperature fell considerably, but in the southern parts of our Islands it remained fairly high for the time of year. At the close of the week the anticyclone appeared to be moving southwards, and further depressions were beginning to pass in an easterly direction across the north of Scandinavia.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	10·8	- 2·9	18	- 5	BRIGHTON	34·5	+12·2	51	+18
STRATHPEFFER SPA	24·4	+ 8·7	39	+14	WORTHING	33·7	?	50	?
EDINBURGH	12·5	- 2·1	20	- 3	BOGNOR	32·8*	?	49*	?
MORPETH	12·6	?	21	?	WATERGATE (Emsworth)	35·0	?	52	?
NEWCASTLE-ON-TYNE	7·0	?	11	?	WESTBOURNE (Emsworth)	31·1*	+10·4	46*	+15
OSWALDKIRK (Yorkshire)	22·1	+ 7·8	35	+12	VENTNOR HOSPITAL	20·9	- 1·1	31	- 2
YORK	?	?	?	?	BOURNEMOUTH	20·5	?	31	?
LOWESTOFT	34·7	?	52	?	SOUTHPORT	21·0	?	32	?
HOLLESLEY BAY	42·2	?	63	?	RHYL	*	?	*	?
SHEFFIELD	13·8	?	21	?	COLWYN BAY	26·2	?	40	?
WORKSOP	24·0	+ 8·8	36	+13	ABERDOVEY	25·4*	?	38*	?
THURCASTON (Leicestershire)	27·5	+11·2	42	+18	TENBY				
MARGATE	43·0	+23·4	64	+35	NEWQUAY	11·9	- 7·6	18	-12
BROADSTAIRS	43·0	?	64	?	TORQUAY	10·8	- 9·1	16	-12
EASTBOURNE	35·5	+13·3	53	+20	CAHIR (Duneske)	12·3*	?	18*	?
					GUERNSEY	28·9*	+ 8·2	43*	+13

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending July 27th, 1901	Clifton	79	55	66·9	58·2	62·3	+ 1·4	142	0	5	2·02	+ 1·32	—	—	—	—
,, ,, Aug. 3rd, ,,	,,	78	54	73·8	57·4	65·0	+ 4·3	161	0	2	0·09	- 0·63	—	—	—	—
,, ,, Oct. 19th, ,,	Douglas	56	34	53·3	41·8	47·4	- 0·9	39	1	—	—	—	—	—	—	—
,, ,, ,, 26th, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	32·5	?	47	?
,, ,, ,, ,, ,,	Fulbeck	56	30	50·9	35·0	42·7	- 3·3	34	20	1	0·29	- 0·22	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 45.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 9TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 266.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	30	51·8	40·7	46·3	4 above	36	+13	4	−10	2330	+391	609	−22
	1. SCOTLAND, EAST	58	25	51·8	36·6	44·3	2 above	39	+16	15	− 3	2475	+192	737	+43
	2. ENGLAND, N.E.	58	25	48·3	35·4	41·9	3 below	18	−11	28	+17	2782	+275	565	+15
	3. ENGLAND, EAST	55	23	48·0	32·7	40·4	5 below	17	−16	37	+25	3049	+149	612	+10
	4. MIDLAND COUNTIES	53	19	45·0	31·0	38·0	6 below	8	−23	41	+27	3006	+167	655	+35
	5. ENGLAND, SOUTH	56	25	48·2	34·7	41·5	5 below	17	−25	30	+23	3221	+ 37	481	+44
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	24	50·5	40·1	45·3	1 above	31	+ 2	5	− 5	2621	+178	498	+20
	7. ENGLAND, N.W.	55	23	48·8	36·2	42·5	3 below	28	− 5	16	+ 9	2893	+208	475	+36
	8. ENGLAND, S.W.	57	19	49·5	35·6	42·6	4 below	18	−25	31	+26	3160	+190	409	+69
	9. IRELAND, NORTH	57	33	51·6	42·4	47·0	2 above	35	+ 3	0	− 9	2610	+ 28	392	−10
	10. IRELAND, SOUTH	61	30	52·0	40·3	46·2	0 (average)	37	− 3	5	− 2	3006	+ 65	340	+49
	—CHANNEL ISLANDS	59	33	54·6	42·7	48·7	2 above	47	−15	0	− 1	3657	+166	160	+36

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 266.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	5 less	195	0	35·3	− 6·2	5	− 5	9	− 9	1226	+150	30	+ 4
	1. SCOTLAND, EAST	3	7	1 less	169	+ 2	23·3	− 3·6	16	+ 2	26	+ 3	1393	+169	34	+ 4
	2. ENGLAND, N.E.	2	4	2 less	141	−14	18·0	− 3·9	17	0	27	0	1461	+225	36	+ 6
	3. ENGLAND, EAST	0	less than ½	5 less	129	−27	15·5	− 6·1	20	− 3	31	− 5	1718	+161	41	+ 4
	4. MIDLAND COUNTIES	0	less than ½	6 less	131	−18	20·8	− 3·2	5	− 9	7	−14	1422	+146	37	+ 4
	5. ENGLAND, SOUTH	0	less than ½	7 less	122	−24	20·1	− 4·0	23	+ 5	37	+ 8	1756	+177	43	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	6	7 less	176	− 5	39·7	− 3·8	7	− 6	11	−10	1468	+183	36	+ 4
	7. ENGLAND, N.W.	1	less than ½	8 less	153	−11	21·9	− 7·9	18	+ 2	28	+ 3	1616	+279	39	+ 6
	8. ENGLAND, S.W.	0	0	10 less	142	−27	27·8	− 6·5	18	+ 2	29	+ 4	1636	+ 63	41	+ 1
	9. IRELAND, NORTH	2	4	3 less	193	0	30·6	0·0	7	− 8	12	−11	1273	+ 80	32	+ 2
	10. IRELAND, SOUTH	0	0	10 less	163	−13	30·1	− 4·2	14	− 2	22	− 3	1397	+ 37	35	+ 1
	— CHANNEL ISLANDS	2	less than ½	9 less	161	− 8	24·7	− 2·7	40	+21	61	+32	1830	+ 46	47	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was very dry and quiet. A good deal of sunshine was experienced during the early part of the time at our south-eastern and southern coast stations, but in most inland districts—especially over central England—the weather was very foggy, and during the latter days of the period, this condition extended to the southern and eastern coasts also. At the close of the period, however, the fog had dispersed in almost all places.

Temperature continued a little above the mean in Scotland, Ireland N., and the Channel Islands, and was just equal to it in Ireland S. In all the English districts it was below the normal, the deficit ranging from 3° in England N.E. and N.W. to as much as 5° in England E. and S., and 6° in the Midland Counties. The highest of the maxima were recorded, as a general rule, either at the beginning or end of the week; they varied from 61° in Ireland S., 59° in the Channel Islands, and 58° in the extreme north and north-east of Great Britain to 53° over central England. On Monday and Tuesday the daily maxima in some parts of the Midland Counties did not reach 40°, and at Hereford on Tuesday the thermometor did not exceed 31·5°. The lowest of the minima occurred during the middle of the week, when they were as low as 19° in the Midland Counties and England S.W., and considerably below 30° in nearly all other districts. In Ireland N. and the Channel Islands, however, the lowest reading was 33°.

Rainfall was much less than the mean in all districts; over by far the greater part of the Kingdom the weather was quite rainless.

Bright Sunshine greatly exceeded the mean in the Channel Islands, and to a less extent in England S., S.W. and N.W., and in Scotland E. In most other districts there was a deficit. The percentage of the possible duration ranged from 61 in the Channel Islands to 37 in England S., and 31 in England E., and to 12 in Ireland N., 11 in Scotland W., 9 in Scotland N., and 7 in the Midland Counties.

Barometer and Wind. The distribution of pressure over our Islands was almost entirely anticyclonic. Soon after the commencement of the week a high pressure area, which was already existing over Denmark and north Germany, began to extend westwards over our more southern and central districts, and finally reached our Atlantic coasts, while the large cyclonic disturbances passing over Scandinavia caused pressure to give way to the eastward and southward of the North Sea, so that the anticyclone gradually became confined to our southern coasts, the Channel and France. At the end of the week a small shallow low pressure system was passing eastwards across Scotland. Light Southerly and South-Easterly winds were general during the first day or two, after which light Easterly breezes set in in the south, and Westerly winds in the north. During the latter half of the week the latter current spread very slowly southwards, until by Saturday the whole Kingdom was under its influence. On the night of the 7th—8th a fresh North-Westerly gale was felt in the extreme north-east of Scotland.

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II.—DATA from which the SUMMARY on page 265 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	37	50·1	42·7	46·4	+ 3·1	31	0	6	0·42	− 0·55	*	*	*	*
	Stornoway	57	33	54·1	41·1	47·6	+ 4·4	43	3	6	0·63	− 0·56	3·6	− 8·7	6	−15
	Wick	53	33	51·9	39·1	45·5	+ 2·5	37	8	5	0·88	+ 0·21	*	*	*	*
	Lairg Ⓢ	56	30	53·1	36·6	44·9	+ 4·1	43	15	4	0·46	− 0·37	*	*	*	*
	Glencarron Ⓢ	53	34	50·0	42·3	46·2	+ 4·2	29	0	4	1·80	− 0·37	*	*	*	*
	Fort Augustus Ⓢ	57	31	52·7	40·2	46·5	+ 3·6	39	5	3	0·22	− 0·78	11·3	+ 4·4	19	+ 7
	Fort William Ⓢ	54	34	50·7	42·9	46·8	+ 2·6	34	0	5	0·71	− 1·07	2·2	− 7·1	4	−12
1. SCOTLAND, E.	Nairn	53	29	51·9	37·4	44·7	+ 2·1	38	13	5	0·30	− 0·23	*	*	*	*
	Aberdeen	55	31	51·1	38·0	44·6	+ 1·2	35	11	5	0·66	− 0·04	10·8	− 4·2	18	− 7
	Braemar Ⓢ	54	25	49·0	35·9	42·5	+ 2·8	29	17	2	0·44	− 0·43	*	*	*	*
	Ochtertyre Ⓢ	58	30	54·0	37·4	45·7	+ 3·1	45	13	3	0·69	− 0·31	*	*	*	*
	Leith	54	27	52·4	36·7	44·6	0·0	40	15	2	0·87	+ 0·34	*	*	*	*
	Marchmont Ⓢ	55	29	52·3	34·4	43·4	+ 1·2	42	21	2	1·05	+ 0·27	25·5	+11·5	43	+20
2. ENGLAND, N.E.	Alnwick Castle	58	25	51·8	34·0	42·9	− 0·9	40	22	3	1·21	+ 0·16	*	*	*	*
	Durham	52	25	48·0	34·8	41·4	− 2·0	17	29	2	0·31	− 0·32	19·0	+ 4·7	30	+ 7
	Shields	52	33	49·4	38·3	43·9	− 0·7	29	10	2	0·58	+ 0·02	*	*	*	*
	Scarborough Ⓜ	55	27	49·8	36·6	43·2	− 2·0	31	15	1	0·22	− 0·46	23·2	?	37	?
	Spurn Head	55	31	47·6	37·0	42·3	− 3·4	23	14	1	0·10	− 0·40	*	*	*	*
	Fulbeck (Lincolnshire)	50	25	43·3	31·4	37·4	− 5·9	4	38	1	0·05	− 0·44	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	55	26	47·0	32·3	39·7	− 4·6	14	38	0	0·07	− 0·44	8·5	− 6·9	13	−11
	Yarmouth	52	28	48·3	35·0	41·7	− 3·8	18	29	1	0·04	− 0·61	*	*	*	*
	Geldeston	55	24	49·3	30·3	39·8	− 5·6	20	46	0	0·01	− 0·58	21·8	+ 4·3	34	+ 7
	Cambridge	53	27	46·3	32·3	39·3	− 5·4	12	37	0	0·02	− 0·45	9·3	− 8·1	15	−12
	Felixstowe	55	29	50·0	36·0	43·0	− 2·2	32	17	0	0·03	?	31·6†	?†	49†	?†
	Rothamsted	51	23	46·9	30·4	38·7	− 5·3	14	44	0	0·03	− 0·60	16·8	− 1·2	26	− 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	23	45·1	32·0	38·6	− 5·2	9	38	1	0·11	− 0·38	*	*	*	*
	Loughborough	50	22	43·0	31·4	37·2	− 7·3	3	38	0	0·03	− 0·46	*	*	*	*
	Colly Weston (Stamford)	53	22	51·3	31·1	41·2	− 2·1	26	45	0	0·04	?	*	*	*	*
	Cheadle Ⓜ	49	22	43·9	32·3	38·1	− 5·0	5	35	0	0·01	− 0·69	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	50	23	44·0	34·2	39·1	− 5·4	6	29	0	—	− 0·68	0·1	?	0	?
	Churchstoke Ⓜ	51	21	46·4	29·1	37·8	− 5·9	12	49	0	—	− 0·76	12·4	− 2·0	20	− 3
	Hereford (Belmont) Ⓜ	52	20	42·7	27·5	35·1	− 9·8	2	51	0	—	− 0·59	*	*	*	*
	Cirencester	51	19	45·1	30·6	37·9	− 5·8	9	42	0	0·03	− 0·66	12·3	− 3·5	19	− 5
	Oxford	52	25	43·7	30·7	37·2	− 7·2	5	41	0	0·03	− 0·50	4·0	−12·0	6	−19
5. ENGLAND, S	London	51	30	44·7	33·3	39·0	− 6·7	8	32	0	—	− 0·53	0·3‖	−10·8†	0‖	−17†
	Swarraton (Alresford) Ⓜ	52	25	45·6	29·9	37·8	− 6·5	10	45	1	0·06	− 0·67	*	*	*	*
	Dungeness	54	26	49·1	33·1	41·1	− 6·2	20	36	0	—	− 0·64	20·8	?	33	?
	Hastings (St. Leonards)	54	34	50·1	37·4	43·8	− 3·3	32	13	0	0·02	− 0·75	32·3	+12·9	50	+20
	Southampton	55	28	48·6	33·9	41·3	− 5·5	18	33	0	—	− 0·74	17·6	+0·3	28	+ 1
	Portland Bill	56	33	50·6	40·4	45·5	− 2·7	31	4	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	53	29	48·8	34·7	41·8	− 2·3	15	31	0	0·01	− 0·81	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	41	53·1	45·5	49·3	+ 4·5	51	0	5	1·28	− 0·57	*	*	*	*
	Glasgow	51	33	49·3	41·3	45·3	+ 1·7	26	2	3	0·67	− 0·20	2·3	− 6·2	4	−10
	Glenlee Ⓢ	52	24	48·4	33·9	41·2	− 1·7	18	33	1	0·28	− 1·13	*	*	*	*
	Douglas (Isle of Man)	52	32	51·2	39·6	45·4	− 0·4	34	7	1	0·16	− 0·90	11·3	− 5·4	18	− 9
7. ENGLAND, N.W.	Newton Reigny	55	23	50·6	30·9	40·8	− 1·0	24	45	2	0·13	?	20·7	?	34	?
	Stonyhurst	50	26	46·0	35·0	40·5	− 3·5	11	27	0	—	− 1·06	10·7	− 2·0	17	− 5
	Blackpool Ⓜ	53	27	49·7	35·4	42·6	− 2·6	32	18	1	0·05	− 0·77	12·9	+ 0·2	21	0
	Manchester (Prestwich)	53	23	46·6	34·4	40·5	− 3·8	13	30	2	0·04	− 0·83	8·5	?	14	?
	Liverpool Obsy. (Bidston)	51	31	46·6	35·7	41·2	− 4·3	13	26	0	0·02	− 0·65	15·4	?	24	?
	Chester (Hawarden Bridge)	51	28	46·0	34·9	40·5	− 5·5	11	28	0	0·02	?	*	*	*	*
	Llandudno Ⓜ	55	36	52·2	42·3	47·3	0·0	37	0	1	0·01	− 0·78	22·4	+ 8·1	36	+14
	Holyhead	55	38	52·3	41·3	46·8	− 1·0	37	2	0	—	− 0·92	*	*	*	*
8. ENGLAND, S W.	Llandovery	55	19	50·3	29·7	40·0	− 4·7	23	49	0	—	− 1·17	*	*	*	*
	Pembroke	55	33	52·1	42·1	47·1	− 1·5	36	0	0	—	− 0·92	17·5	+ 0·7	27	0
	Clifton	52	28	44·5	32·4	38·5	− 7·0	7	36	0	—	− 0·80	*	*	*	*
	Bath	54	25	45·1	30·6	37·9	− 8·1	9	42	0	—	?	8·7	?	14	?
	Arlington (N. Devon)	55	29	51·3	33·9	42·6	− 2·9	38	23	0	—	− 1·36	*	*	*	*
	Cullompton Ⓜ	57	24	47·4	30·8	39·1	− 6·3	15	43	0	0·03	− 0·81	12·3	− 2·6	19	− 4
	Falmouth	57	39	52·6	46·0	49·3	+ 0·4	51	0	0	0·02	− 1·17	24·6	+ 5·1	38	+ 8
	Plymouth	57	32	52·5	39·4	46·0	− 1·9	39	7	0	—	− 0·84	25·1	+ 7·7	39	+13
9. IRELAND, N.	Malin Head	55	45	52·9	46·3	49·6	+ 3·5	53	0	3	0·65	?	*	*	*	*
	Edenfel (Omagh)	55	36	49·9	40·6	45·3	+ 2·2	29	4	1	0·40	− 0·36	*	*	*	*
	Blacksod Point	56	39	53·6	46·0	49·8	+ 2·9	55	0	1	0·76	?	*	*	*	*
	Markree Castle	56	33	52·1	40·4	46·3	+ 1·9	37	4	2	0·16	− 0·72	5·8	− 9·1	9	−14
	Armagh	57	36	50·7	40·8	45·8	+ 1·6	32	3	1	0·37	− 0·25	8.9	− 6·9	14	− 9
	Donaghadee	53	35	50·3	40·4	45·4	− 0·3	31	4	2	0·32	− 0·41	*	*	*	*
10. IRELAND, S	Dublin	56	34	49·7	41·2	45·5	− 1·1	28	2	0	—	− 0·60	13·2	− 5·9	21	− 9
	Parsonstown	56	30	49·4	38·4	43·9	− 0·8	28	10	1	0·02	− 0·68	12·6	− 4·7	20	− 7
	Kilkenny	55	33	49·3	40.3	44·8	− 0·8	27	5	1	0·01	− 0·69	*	*	*	*
	Roche's Point	56	38	51·9	43·6	47·8	+ 0·6	41	0	0	—	− 1·05	*	*	*	*
	Valencia	60	32	54·7	40·9	47·8	− 0·9	45	3	0	—	− 1·31	22·5	+ 4·5	35	+ 7
	Killarney	61	31	57·7	36·3	47·0	+ 0·1	59	16	0	—	− 1·42	*	*	*	*
	Foynes	56	34	51·1	41·5	46.3	0·0	32	1	0	—	− 0·95	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	43	54·9	48·3	51·6	+ 0·7	67	0	0	—	− 0·84	40·5	?	62	?
	Jersey	59	33	54·3	37·0	45·7	− 4·3	47	14	0	0·03	− 0·92	40·0	+19·6	61	+30

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

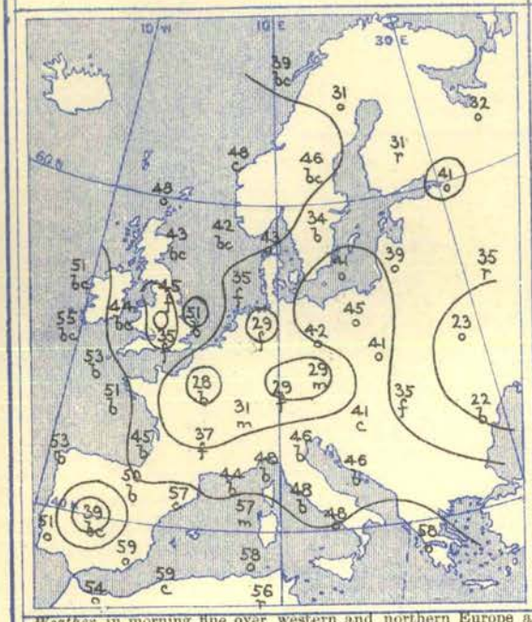
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

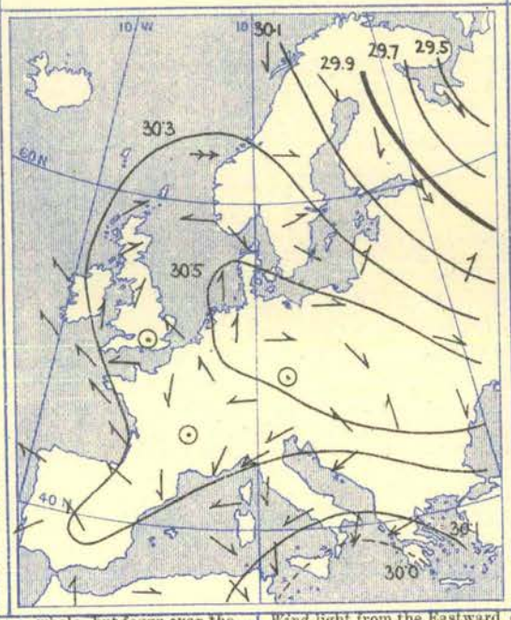
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 3rd November.

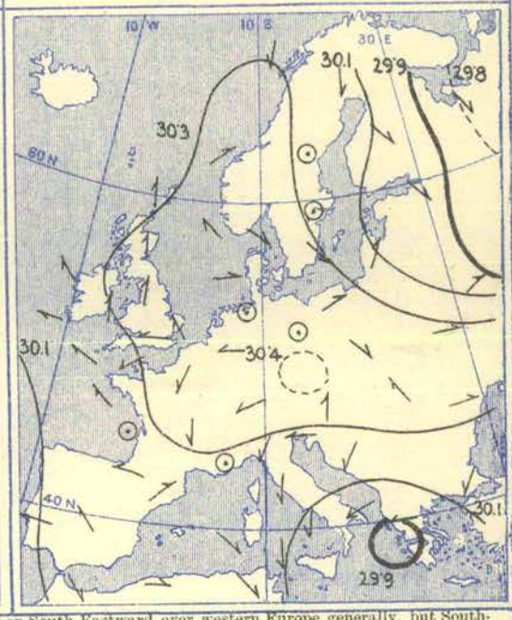
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and northern Europe as a whole, but foggy over the northern and central parts of England. Foggy also at several of the Danish and German stations. Dull in Greece and Italy as well as in the northern and central parts of Russia, with rain at Kuopio and Moscow. Slight rain falling later in the extreme north of Scotland and the west of Norway; no material change occurring elsewhere.

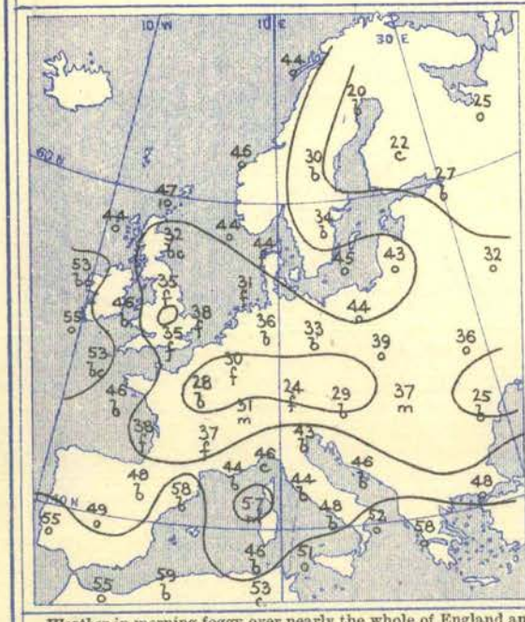
Temperature risen in Ireland and the west and north of Scotland, as well as in Scandinavia and Austria. Morning readings highest, 59° at Bilbao, Alicante and Algiers, and 58° at Cagliari and Patras; above 50° at most of the Mediterranean and Spanish coast stations, and also in Ireland. Lowest, 13° at Kharkov, 19° at Nicolaieff, 22° at Odessa and 23° at Kiev; below the freezing point in many parts of eastern and central Europe, and also over the more central parts of England. Rising later to 55° or more on many parts of our west and south-west coasts, and to 59° at Valencia, but remaining below 40° over central England. Exceeding 60° in the west of France and many parts of southern Europe, and reaching 70° at Bilbao.

Wind light from the Eastward or South-Eastward over western Europe generally, but South-Westerly in the north of Scotland. Westerly or North-Westerly over Scandinavia and northern Russia, with a gale at Christiansund and St. Petersburg. Calm or variable over Germany, Austria and the south of Russia; fresh to strong from the North-Eastward over Italy and the Adriatic; light to moderate from the Eastward over the Spanish Peninsula. No important change occurring during day.

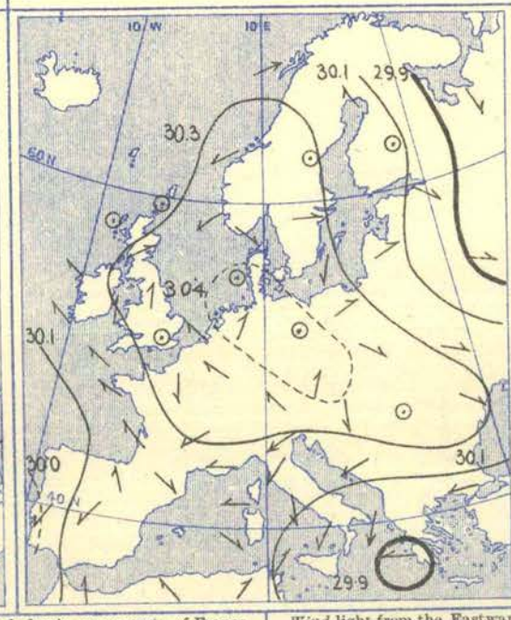
Barometer highest, 30·5 ins. and upwards over Germany and the southern parts both of Russia and Germany; 30·2 ins. and upwards in an anticyclone covering all but the extreme southern and north-eastern parts of Europe. Lowest, 29·5 ins. and less in a cyclonic system over northern Russia; 30·0 ins. and less in a shallow area over the central parts of the Mediterranean; both depressions moving eastwards later. Anticyclone becoming somewhat reduced in height and drifting slowly westwards.

Monday, 4th November.

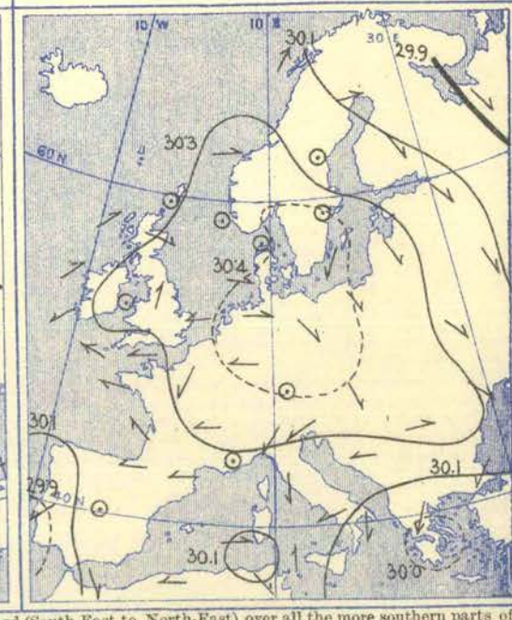
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy over nearly the whole of England and also in many parts of France, Belgium, Germany and Denmark. Fine in most other parts of Europe, but dull in the Shetlands, the Hebrides and the west of Norway, as well as in Greece and southern Italy. No decided change occurring later, but rain falling in some parts of Greece and Turkey.

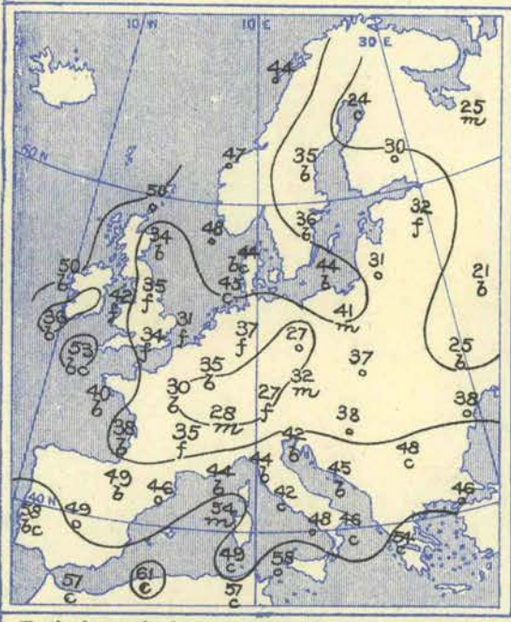
Temperature fallen generally, but risen in the south of Russia and also over the Spanish Peninsula. Morning readings highest, 59° at Algiers, 58° at Barcelona and Patras, and 55° at Oran; above 50° at most of the Mediterranean and Spanish coast stations, and also on our own extreme west and south-west coasts. Lowest, (1) 20° at Uleaborg and 22° at Haparanda and Kuopio; (2) 24° at Munich and 25° at Odessa and Nicolaieff; (3) 26° at Oxford and 28° at Newton Reigny and Bath. Remaining below 40° all day in the inland parts of England, but exceeding 50° at many of the coast stations; exceeding 55° on the Irish coasts, and reaching 60° at Valencia. Exceeding 60° over Spain and the southern parts of France and Italy, and touching 70° at Bilbao.

Wind light from the Eastward (South-East to North-East) over all the more southern parts of the United Kingdom, and also over France, the Netherlands and western and southern Germany. Light from between West and North in Sweden and Russia. Moderate to fresh from the North-Eastward in Italy, and light from the same quarter over the Spanish Peninsula. No important change occurring during day.

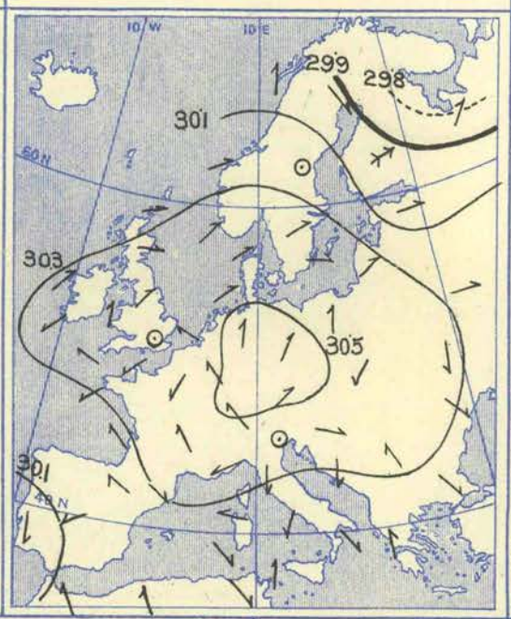
Barometer highest, 30·4 ins. and upwards over Germany and the Netherlands; 30·2 ins. and upwards in an anticyclone covering nearly the whole of Europe. Lowest, 29·8 ins. and less in a shallow cyclonic system over the north of Russia, 29·9 ins. and less in another shallow area off the south-west of Greece. No decided change taking place later.

Tuesday, 5th November.

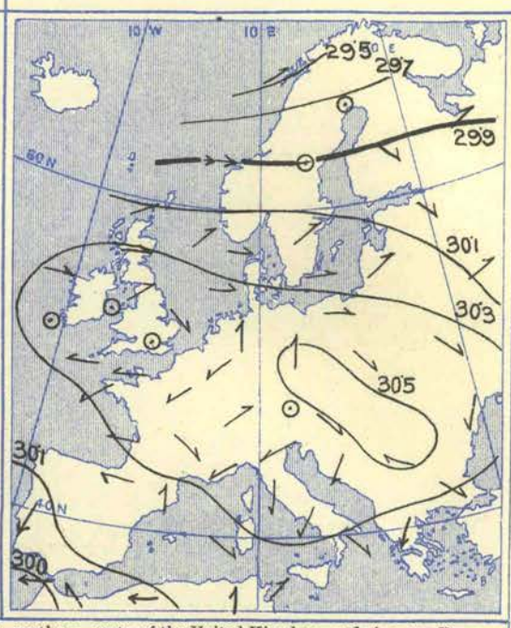
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy over nearly the whole of England, and also in some parts of Ireland, France and south Germany, fair or fine in most other places, but dull in Norway. Slight rain later in the extreme north and north-west of our Islands, but larger quantities in the west of Norway—1·3 ins. measured at Bodö.

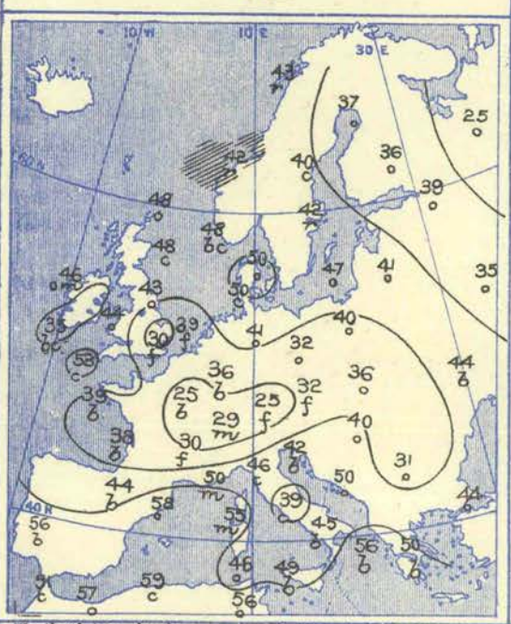
Temperature risen somewhat over Scotland to the eastward of the North Sea, and also over northern Europe, fallen in Ireland as well as at many of the southern and eastern continental stations, changed irregularly elsewhere. Morning readings highest, 61° at Algiers, 58° at Lisbon and Palermo, 57° at Barcelona and Oran, and 54° at Sanguinaires and Patras. Lowest, (1) 21° at Moscow, 24° at Uleaborg, 25° at Archangel and Kharkov, and below the freezing point over Russia generally; (2) 25° at Newton Reigny, 29° at Dungeness, 30° at Parsonstown, and 31° at Yarmouth; (3) 27° at Berlin and Munich, 28° at Belfort, and 30° at Paris and Frankfürt. Rising during day to 55° or slightly above it at several of the Irish and Scotch stations; exceeding 60° in the south of France and over Algeria, and reaching 70° at San Fernando and 72° at Oporto.

Wind light from East over the southern parts of the United Kingdom, and also over France, the Netherlands and western and southern Germany, light from between South and West in Scotland, the North-East of England and in Scandinavia, chiefly Westerly over northern Europe, but light from the Northward in southern Russia, and at many of the Mediterranean stations. No material change later, but increasing to a strong gale from Westward at Christiansund.

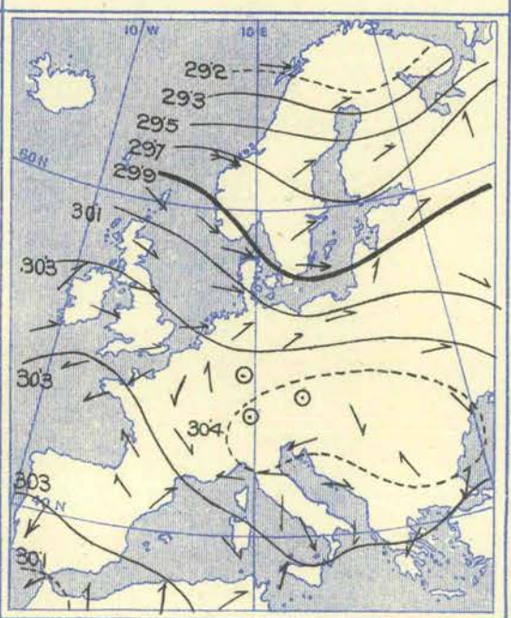
Barometer highest, 30·5 ins. and upwards in the central area of an anticyclone covering the greater part of western and central Europe. Lowest, 29·8 ins. and less over northern Russia, and 30·1 in. and less over the south-western part of the Spanish Peninsula. Large depression approaching Scandinavia from the westward later, and central area of anticyclone moving in a south-easterly direction.

Wednesday, 6th November.

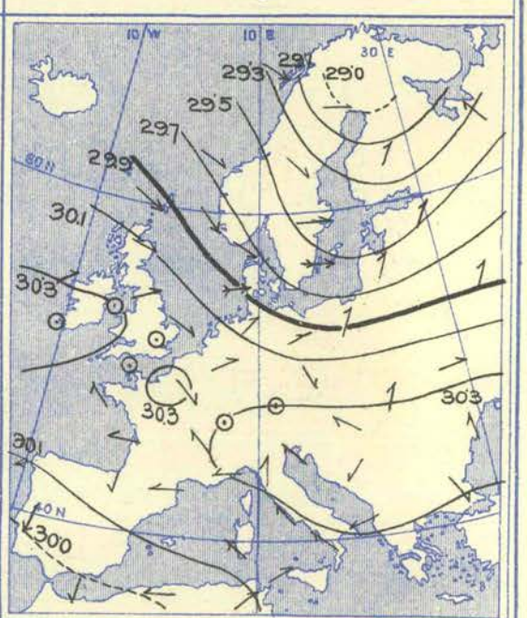
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy over nearly the whole of England and eastern and central Ireland as well as in south Germany. Fine in most other parts of western, central and southern Europe, but cloudy or dull over the northern countries, with rain in the west of Norway. Slight rain falling later at several of our own northern stations and somewhat larger quantities in many parts of northern Europe; considerable amounts reported in Algeria—as much as 1·2 in. at Aumale.

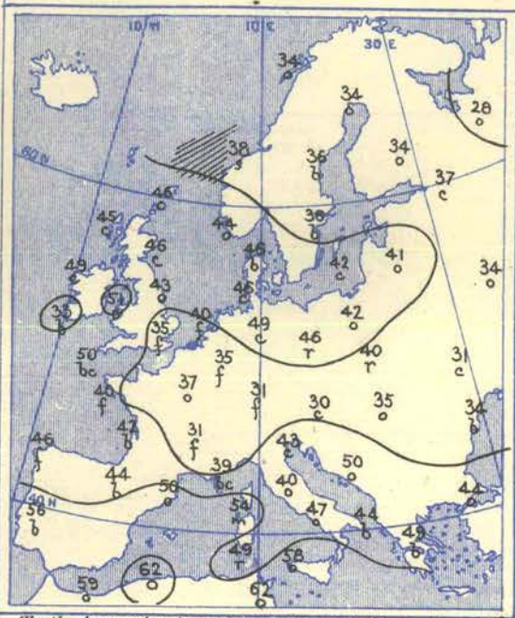
Temperature risen briskly in the northern parts of our Islands and the Continent generally, but fallen a little in the west of Norway; fallen in Ireland and the central parts of England; changed rather irregularly elsewhere. Morning readings highest, 59° at Algiers, 58° at Barcelona, and 57° at Oporto; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, (1) 25° at Bath and 26° at Loughborough; (2) 25° at Paris and Munich and 27° at Frankfürt; (3) 25° at Archangel. Rising during day to 50° and upwards on several parts of our western and northern coasts, and to 55° at Aberdeen; exceeding 60° over the Spanish Peninsula and the extreme southern parts of France and Italy, and reaching 68° at Palermo.

Wind light from the Westward on the north and east coasts of Great Britain and moderate to strong from the same quarter or from South-West over the northern parts of the Continent, with a gale at Christiansund. Light from the Eastward or South-Eastward in the west of France and from the North-Eastward on our own south-west coasts. Variable over northern Italy, Northerly (North-Westerly to North-Easterly) over Greece and southern Italy. Subsequently increasing to a gale from the Westward in Denmark and the south of Sweden; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over eastern France, Switzerland, Austria and the southern parts of Germany and Russia; 30·2 ins. and upwards in an anticyclone lying over the central and southern parts of Europe generally, and extending westwards over England and Ireland. Lowest, 29·2 ins. and less in a large cyclonic disturbance over the north of Scandinavia. Anticyclone giving way gradually during day; cyclonic system moving eastwards.

Thursday, 7th November.

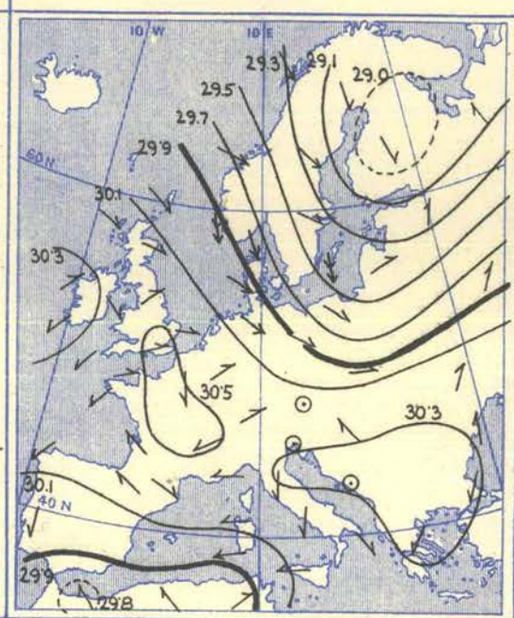
Temperature and Weather. 8 a.m.



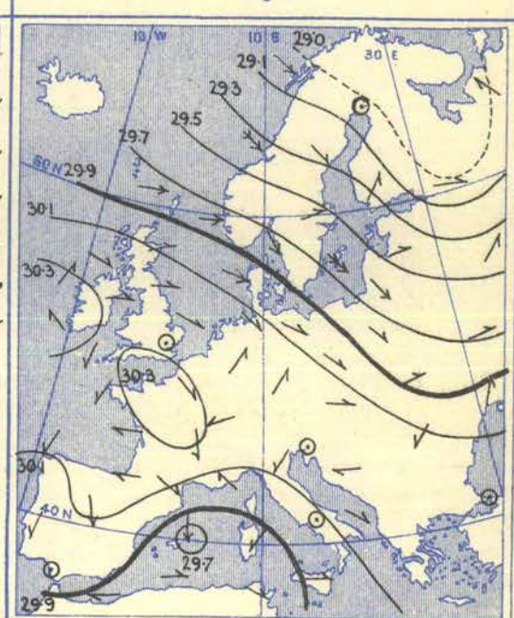
Weather in morning foggy at many places in the southern half of the United Kingdom, and also over Belgium, western Germany and the east of France. Fine in most other parts of western Europe, but dull in the west of Norway, with snow at Christiansund. Cloudy in the eastern and central countries; rain falling in eastern Germany, and also at Helsingfors and Cagliari. Slight rain falling later in the north of Scotland, and much larger quantities over central and southern Italy—as much as 2·8 ins. at Cagliari.

Temperature risen considerably over England, Ireland and Germany, and also in some parts of central France; fallen in most other localities. Morning readings highest, 62° at Algiers, 61° at Nemours and La Calle, and 58° at Palermo; above 50° at many of the Mediterranean stations; ranging between 45° and 50° in the west and extreme north of our Islands, and touching 51° at Holyhead. Lowest, (1) 28° at Dungeness and Le Mans; (2) 23° at Archangel; (3) 28° at Nicolaieff and 29° at Kharkov. Rising during day to between 50° and 55° in all the more western and northern parts of our Islands; exceeding 60° over Spain and the extreme southern parts of France and Italy, and reaching 68° at Croisette and San Fernando.

Barometer and Wind. 8 a.m.



6 p.m.

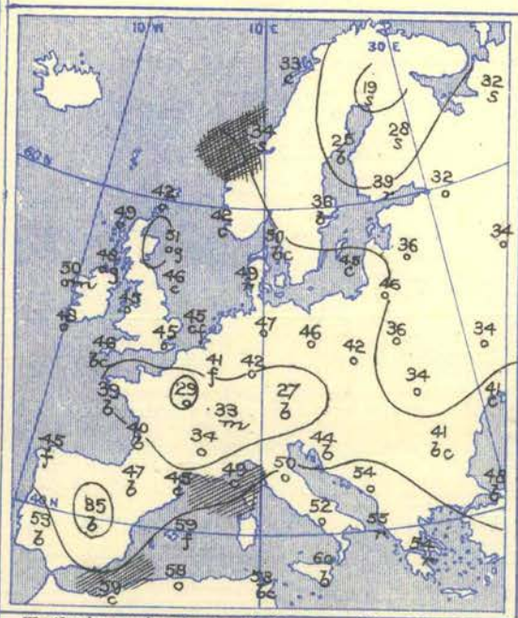


Wind light from the Westward or North-Westward on the north and east coasts of Great Britain, and also in Holland and Germany; strong from the same quarters over the greater part of northern Europe, and blowing a gale from North at Wisby; light from the South-Westward or Southward in Russia. Light from the Northward on our own southern coasts, and from between North and East over France, Spain and Italy; calm or variable in Austria. North-Westerly gale springing up later on the west coasts of Norway; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards to 30·2 ins. in an anticyclone covering Ireland, England and all the more eastern parts of southern Europe. Lowest, 29·0 ins. and less in a large and rather deep cyclonic system with its centre over the north of Finland; 29·8 ins. and less in another disturbance over Morocco. Northern disturbance subsequently moving eastwards; depression over Morocco travelling north-eastwards to the neighbourhood of the Balearic Isles, and becoming rather deeper.

Friday, 8th November.

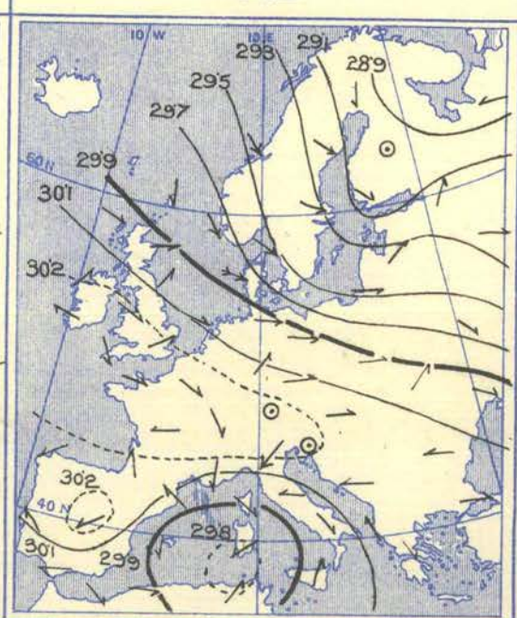
Temperature and Weather. 8 a.m.



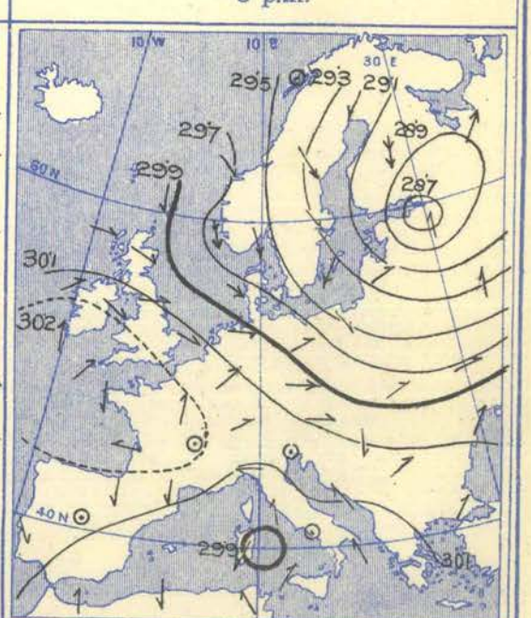
Weather in morning cloudy or dull over our Islands and the Continent generally, with fog or mist in several parts of England, France and Belgium; rain falling at Wick and Parsonstown, and also in some parts of northern and southern Europe; snow reported at Haparanda and Christiansund. Fine in Sweden and also over the Spanish Peninsula. Rain falling later over the whole of Scotland, as well as at several of the Scandinavian, German, Italian and Algerian stations—as much as 2·8 ins. at Oran.

Temperature risen over our Islands and the central and southern parts of the Continent, but fallen elsewhere. Morning readings highest, 60° at Palermo and 59° at Palma, Nemours and Oran; above 50° at most of the Mediterranean and Adriatic stations, and also in the east of Scotland. Lowest, 19° at Haparanda, 21° at Uleaborg, and 25° at Hernösand; below the freezing point in many parts of Sweden and Russia. Rising during day to 50° or slightly above it in most parts of the United Kingdom, and to 54° at Leith and Blacksod Point. Exceeding 60° over southern Europe generally, and reaching 66° at Barcelona and 68° at Oporto.

Barometer and Wind. 8 a.m.



6 p.m.

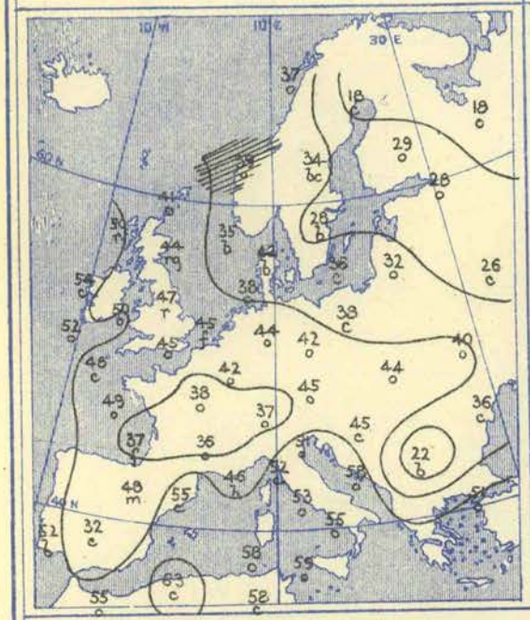


Wind light from the South-Westward in the north of Ireland, and from the Westward or North-Westward in most parts of Great Britain. Strong to a gale from the North-Westward over Scandinavia and Denmark; light to moderate from the Westward over Germany and Austria, and from the South-Westward in Russia. Light from the Eastward over Spain and the west and south of France; South-Easterly over southern Italy; variable in Greece and the south of Russia; no decided change occurring later.

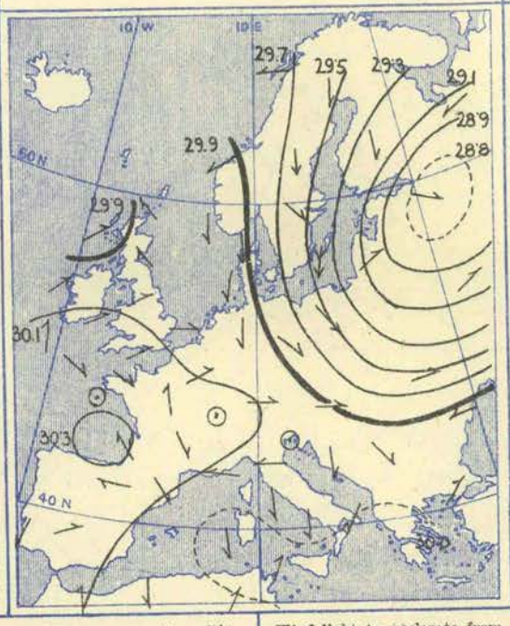
Barometer highest, 30·2 ins. and upwards to 30·1 ins. over Ireland, England, and a considerable portion of central and southern Europe. Lowest, 28·9 ins. and less in a cyclonic system over the extreme north of Russia; 29·0 ins. and less in a secondary area over Finland. Secondary depression growing much deeper later and moving eastwards; another disturbance of a similar character appearing over the south of Norway.

Saturday, 9th November.

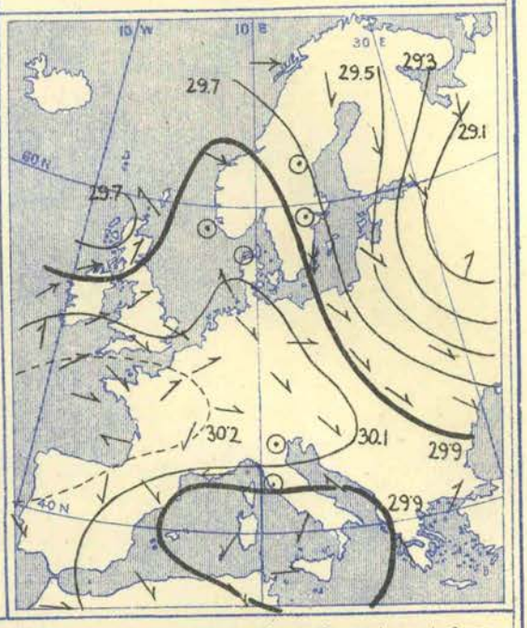
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western, central and southern Europe generally, with rain in the northern parts of Great Britain; fog reported at Yarmouth and also in some parts of France and northern Italy. Fine in Scandinavia and Denmark as well as over the greater part of the Spanish Peninsula. Rain falling later over all the more northern parts of the United Kingdom, and also over southern Italy, and snow at Moscow. Shock of earthquake experienced at Karlstad at midnight.

Temperature risen over western, central and southern Europe generally, but fallen in most of the northern countries, including Scotland. Morning readings highest, 63° at Algiers, 61° at Sfax, and 60° at Brindisi; above 55° at several of the Mediterranean, Adriatic and Spanish coast stations, and above 50° on many parts of our own western coasts. Lowest, (1) 18° at Archangel and Uleaborg and 22° at Haparanda; (2) 22° at Hermanstadt; below the freezing point in most parts of Sweden and Russia. Rising during day to between 50° and 55° over the United Kingdom generally; exceeding 60° in most parts of southern Europe, and reaching 66° at Sanguinaire and 68° at Oporto.

Wind light to moderate from the Westward or South-Westward over the greater part of our Islands, but South-Easterly in the north-east of Scotland. Light from the North-Westward at the English Channel stations, and from the Eastward in the south-west of France. Northerly or North-Westerly over northern Europe generally, and blowing a gale at Wisby. Easterly or North-Easterly in the west of Norway. Westerly in Germany and Austria and Northerly in Italy. Subsequently falling calm in all the more northern parts of Sweden; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the Bay of Biscay; 30·1 ins. and upwards in an anticyclone lying over the whole of France, Spain and the southern half of the United Kingdom. Lowest, 28·8 ins. and less in a rather deep cyclonic system with its centre near St. Petersburg; 29·9 ins. and less in a shallow disturbance lying off the north-west of Scotland. Russian low pressure area subsequently moving eastwards; depression off the Scotch coasts remaining almost stationary.

GENERAL NOTES.

In the early part of the week an anticyclone of considerable height covered nearly the whole of Europe, the central portion of the system being situated at first over Germany and the south of Russia and afterwards over Germany only. The winds showed a complete circulation around and away from the highest pressures, being North-Easterly in the southern, South-Easterly in the western, and Westerly or North-Westerly in the northern countries; and the weather, although fine in places, was very foggy over England and many parts of France, Germany, and the Netherlands.

After the 4th the anticyclone moved slowly southwards, while large cyclonic systems travelled from the Atlantic across the extreme northern parts of Scandinavia and Russia, the wind in the latter region increasing considerably from the Westward and blowing a gale in many places, with frequent falls of rain or snow. Over the western countries the conditions remained anticyclonic until after the 7th, when the Westerly winds in the north spread southwards, and caused a complete dispersal of the fog over England. At the close of the week secondary low pressure systems were beginning to approach our own northern coasts, and rainy weather was spreading from the northward over the whole kingdom.

During the latter half of the time a shallow depression advanced over the Mediterranean from the south-westward, and occasioned heavy falls of rain, firstly in Algeria, and afterwards over the central and southern parts of Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	1·1	- 9·9	2	-17	BRIGHTON	28·0	+, 9·2	44	+15
STRATHPEFFER SPA	? 8·4	- 4·2	? 14	- 7	WORTHING	31·3	?	49	?
EDINBURGH	10·8	- 1·9	18	- 3	BOGNOR	31·8*	?	50*	?
MORPETH	28·1	?	46	?	WATERGATE (Emsworth)	26·3	?	41	?
NEWCASTLE-ON-TYNE	10·0	?	16	?	WESTBOURNE (Emsworth)	23·8*	+ 6·3	37*	+10
OSWALDKIRK (Yorkshire)	16·7	+ 3·9	27	+ 6	VENTNOR HOSPITAL	33·2	+14·7	52	+24
YORK	2·0	- 8·7	5	-14	BOURNEMOUTH	18·3	?	29	?
LOWESTOFT	25·7	?	40	?	SOUTHPORT		?		?
HOLLESLEY BAY	27·6	?	43	?	RHYL	25·3*	?	40*	?
SHEFFIELD	2·2	?	3	?	COLWYN BAY		?		?
WORKSOP	0·7	-12·1	1	-20	ABERDOVEY	24·3*	?	39*	?
THURCASTON (Leicestershire)	0·2	-14·0	0	-22	TENBY	19·0	+ 2·1	30	+ 3
MARGATE	14·0	- 2·9	22	- 4	NEWQUAY	30·2	+10·2	46	+16
BROADSTAIRS	18·6	?	29	?	TORQUAY	10·0	- 7·4	15	-11
EASTBOURNE	30·0	+11·6	47	+18	CAHIR (Duneske)	7·9*	?	12*	?
					GUERNSEY	39·8*	+22·1	60*	+34

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.
In last week's report the figures entered to Newquay should appear opposite Tenby. Those for the first-named station were not received.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Aug. 17th, 1901	Churchstoke	67	47	64·8	51·3	57·8	- 0·1	111	0	6	0·93	+ 0·33	33·4	- 0·8	33	0
,, ,, ,, 24th, ,,	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	62·9	?	64	?
,, ,, ,, ,, ,,	Rhyl	—	—	—	—	—	—	—	—	—	—	—	85·5	?	86	?
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	85·4	?	86	?
,, ,, ,, 31st, ,,	Churchstoke	80	43	64·6	50·4	57·1	0·0	101	0	4	0·45	- 0·15	33·4	- 2·4	35	- 2

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 46.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 16TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 272.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	10	42·3	31·9	37·1	5 below	1	−18	36	+20	2331	+373	645	− 2
	1. SCOTLAND, EAST	56	6	43·0	32·0	37·5	4 below	3	−17	36	+16	2478	+175	773	+59
	2. ENGLAND, N.E.	54	22	45·0	36·6	40·8	2 below	8	−16	21	+ 8	2790	+259	586	+23
	3. ENGLAND, EAST	56	20	46·9	37·9	42·4	1 below	20	− 8	11	− 3	3069	+141	623	+ 7
	4. MIDLAND COUNTIES	55	19	45·5	36·2	40·9	2 below	10	−16	23	+ 6	3016	+151	678	+41
	5. ENGLAND, SOUTH	61	20	48·0	39·0	43·5	2 below	23	−13	8	− 1	3244	+ 24	489	+43
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	17	43·4	33·9	38·6	5 below	4	−21	29	+17	2625	+157	527	+37
	7. ENGLAND, N.W.	57	16	45·2	37·0	41·1	4 below	9	−19	20	+11	2902	+189	495	+47
	8. ENGLAND, S.W.	57	19	47·8	38·3	43·1	3 below	23	−15	10	+ 3	3183	+175	419	+72
	9. IRELAND, NORTH	54	19	45·3	36·0	40·7	3 below	9	−19	24	+13	2619	+ 9	416	+ 3
	10. IRELAND, SOUTH	61	23	46·9	37·6	42·3	3 below	21	−16	12	+ 3	3027	+ 50	352	+52
	—CHANNEL ISLANDS	57	32	51·5	43·6	47·5	2 below	39	−18	0	− 1	3696	+148	160	+35

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 272.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	7	6 less	261	+ 1	36·0	− 6·8	12	+ 4	22	+ 7	1238	+154	30	+ 4
	1. SCOTLAND, EAST	4	9	3 more	173	+ 2	24·2	− 3·4	17	+ 5	29	+ 8	1410	+165	34	+ 4
	2. ENGLAND, N.E.	4	24	18 more	145	−15	20·4	− 2·1	17	+ 6	29	+11	1478	+231	36	+ 6
	3. ENGLAND, EAST	5	12	7 more	134	−26	16·7	− 5·5	14	− 4	23	− 5	1732	+158	40	+ 4
	4. MIDLAND COUNTIES	3	11	5 more	134	−19	21·9	− 2·7	10	− 2	17	− 3	1432	+145	37	+ 4
	5. ENGLAND, SOUTH	3	3	4 less	125	−25	20·4	− 4·4	19	+ 3	30	+ 6	1775	+180	43	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	17	4 more	180	− 6	41·4	− 3·4	15	+ 4	26	+ 7	1483	+187	36	+ 4
	7. ENGLAND, N.W.	5	27	18 more	158	−10	24·6	− 6·1	9	− 3	16	− 5	1625	+276	39	+ 7
	8. ENGLAND, S.W.	4	8	3 less	146	−28	28·6	− 6·8	17	+ 3	27	+ 3	1653	+ 66	41	+ 2
	9. IRELAND, NORTH	5	18	11 more	198	0	32·4	+ 1·0	17	+ 3	30	+ 7	1290	+ 83	32	+ 2
	10. IRELAND, SOUTH	3	25	16 more	166	−14	32·6	− 2·6	18	+ 2	29	+ 3	1415	+ 39	35	+ 1
	— CHANNEL ISLANDS	5	9	0 (average)	166	− 8	25·6	− 2·6	12	− 8	19	−14	1842	+ 38	46	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was very rough and unsettled. Unusually heavy rain was experienced over the north of England and in parts of Ireland, and a good deal of snow and sleet in some parts of Scotland. By the end of the week the condition had become fine, dry, and quiet generally, but thick fog prevailed in many inland localities.

Temperature was below the mean, the deficit ranging from 1° in England E. to 4° in Scotland E. and England N.W., and to 5° in Scotland N. and W. The highest of the maxima were registered during the earlier days of the week, when they ranged from 61° in England S. and Ireland S. to 53° in Scotland N. During the latter part of the period the daily maxima were low, that in London on Saturday was no higher than 28°. The lowest of the maxima were recorded either on the 15th or 16th, when they were as low as 6° in Scotland E. (at Braemar), 10° in Scotland N., 16° in England N.W., 17° in Scotland W., and between 19° and 23° in most other districts. In the Channel Islands, however, the temperature did not fall below 32°.

Rainfall was much above the mean generally, but only just equalled it in the Channel Islands, was rather less in England S. and S.W., and considerably less in Scotland N. In England N.E. and England N.W. respectively, the fall was 4 and 3 times as much as the mean, and in Ireland S. nearly three times as much. This large excess was due to a fall varying from 1·5 ins. to more than 3·0 ins., which occurred in some parts of Ireland and over the northern districts of England on Monday and Tuesday.

Bright Sunshine exceeded the mean in the north and west, but was below it in England E., N.W., the Midland Counties, and the Channel Islands. The percentage of the possible duration ranged from 30 in England S. and Ireland N. to 19 in the Channel Islands, 16 in England N.W., and to 17 ins. in the Midland Counties.

Barometer and Wind.—The distribution of pressure during this week was cyclonic. At first the centre of a rather shallow disturbance passed in an easterly direction over the Shetlands to Scandinavia, and caused moderate or fresh breezes from the Westward over our Islands. By Tuesday morning a very deep and important system had reached the south of Ireland from the Atlantic; during the remainder of the week this moved slowly eastwards, at the same time undergoing some modifications in intensity, and finally disappeared over Russia. During its passage over our Islands it was accompanied by a complete cyclonic circulation of strong winds or gales. The Northerly and North-Easterly gales on our western and northern coasts were very severe on Tuesday and Wednesday, and it was not until Thursday that the Northerly gales entirely subsided, the last part of our coasts affected being the east of England. By the end of the week an anticyclone was spreading over us from the westward and pressure had become very uniform.

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II.—DATA from which the SUMMARY on page 271 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	48	28	39·9	33·0	36·5	− 5·9	0	39	7	0·77	− 0·19	*	*	*	*
	Stornoway	53	29	44·0	35·1	39·6	− 2·8	6	25	7	1·43	+ 0·21	12·6	+ 2·6	23	+ 5
	Wick	52	25	43·3	33·3	38·3	− 3·7	4	31	7	0·75	+ 0·08	*	*	*	*
	Lairg ⚓	53	10	42·5	24·9	33·7	− 5·8	1	60	6	0·69	− 0·14	*	*	*	*
	Glencarron ⚓	52	20	39·9	30·1	35·0	− 6·0	0	49	5	0·58	− 1·65	*	*	*	*
	Fort Augustus ⚓	53	21	43·4	33·0	38·2	− 3·6	4	32	5	0·30	− 0·72	5·4	+ 0·6	10	+ 1
	Fort William ⚓	53	22	42·8	34·1	38·5	− 4·5	2	29	4	0·22	− 1·60	12·8	+ 5·8	23	+11
1. SCOTLAND, E.	Nairn	53	24	42·4	33·1	37·8	− 3·5	1	32	4	0·81	+ 0·31	*	*	*	*
	Aberdeen	52	23	42·4	33·9	38·2	− 4·1	1	29	4	0·49	− 0·22	19·1	+ 6·3	34	+11
	Braemar ⚓	56	6	39·4	26·2	32·8	− 5·7	0	64	5	0·57	− 0·29	*	*	*	*
	Ochtertyre ⚓															
	Leith	54	26	45·7	36·7	41·2	− 2·1	10	21	4	0·94	+ 0·47	*	*	*	*
	Marchmont ⚓	51	19	45·1	30·1	37·6	− 3·3	9	44	5	1·79	+ 1·01	20·0	+ 7·5	35	+13
2. ENGLAND, N.E.	Alnwick Castle	52	22	44·4	35·2	39·8	− 2·9	7	25	5	2·64	+ 1·90	*	*	*	*
	Durham	52	23	44·0	34·6	39·3	− 2·6	6	27	3	3·42	+ 2·81	19·4	+ 6·9	33	+12
	Shields	54	25	44·6	36·6	40·6	− 3·0	7	21	5	2·86	+ 2·33	*	*	*	*
	Scarborough ℳ	53	27	45·9	35·6	40·8	− 3·1	11	25	6	2·66	+ 2·01	15·6	?	26	?
	Spurn Head	54	32	46·3	40·1	43·2	− 1·3	16	5	4	1·83	+ 1·32	*	*	*	*
	Fulbeck (Lincolnshire)	53	24	44·5	37·3	40·9	− 1·2	7	18	3	1·08	+ 0·61	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	55	22	45·5	36·6	41·1	− 1·6	10	22	5	2·26	+ 1·66	9·4	− 3·9	16	− 6
	Yarmouth	54	28	46·3	38·9	42·6	− 1·7	17	9	6	1·56	+ 0·91	*	*	*	*
	Geldeston	56	25	48·6	37·7	43·2	− 0·8	26	12	7	1·28	+ 0·69	14·2	− 1·0	23	− 2
	Cambridge	56	20	47·4	36·7	42·1	− 1·1	23	15	3	1·00	+ 0·54	7·3	− 7·5	12	−12
	Felixstowe	54	28	47·0	40·0	43·5	− 0·5	19	6	3	0·59	?	18·2†	?†	30†	? †
	Rothamsted	55	22	46·3	37·2	41·8	− 0·9	12	20	6	0·74	+ 0·11	14·8	+ 0·3	24	0
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	21	45·4	36·7	41·1	− 1·5	10	21	3	2·22	+ 1·76	*	*	*	*
	Loughborough	55	23	44·1	37·6	40·9	− 2·1	6	17	3	0·90	+ 0·40	*	*	*	*
	Colly Weston (Stamford)	55	21	46·3	36·7	41·5	− 0·7	12	22	4	0·62	?	*	*	*	*
	Cheadle ℳ	55	25	43·8	35·1	39·5	− 2·3	5	26	3	2·00	+ 1·31	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	21	45·0	36·2	40·6	− 2·6	8	22	3	0·86	+ 0·30	2·7	?	4	?
	Churchstoke ℳ	54	20	44·8	33·9	39·4	− 3·1	8	31	4	1·33	+ 0·59	7·0	− 5·2	12	− 8
	Hereford (Belmont) ℳ	55	20	46·3	36·7	41·5	− 2·2	12	22	3	0·45	− 0·12	*	*	*	*
	Cirencester	55	19	46·8	35·0	40·9	− 1·6	13	28	3	0·67	− 0·02	13·5	− 0·1	22	0
	Oxford	55	21	46·9	37·7	42·3	− 1·3	20	12	3	0·37	− 0·16	13·1	− 0·8	21	− 2
5. ENGLAND, S.	London	55	24	45·4	38·4	41·9	− 2·6	10	15	3	0.33	− 0·20	3·4†	− 5·3†	6†	− 8†
	Swarraton (Alresford) ℳ	56	20	46·4	36·1	41·3	− 1·9	12	24	3	0·52	− 0·15	*	*	*	*
	Dungeness	61	24	50·1	39·7	44·9	− 0·9	30	6	3	0·27	− 0·33	18·2	?	29	?
	Hastings (St. Leonards)	58	29	49·1	39·1	44·1	− 1·6	27	8	3	0·23	− 0·53	24·0	+ 7·3	39	+12
	Southampton	59	25	49·8	38·6	44·2	− 1·4	30	10	3	0·50	− 0·23	17·3	+ 2·7	28	+ 4
	Portland Bill	55	33	49·3	43·4	46·4	− 0·8	31	0	3	0·19	?	*	*	*	*
	Shaftesbury ℳ	55	26	45·8	37·4	41·6	− 1·2	11	19	3	0·23	− 0·58	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	25	43·7	34·9	39·3	− 4·4	5	26	4	0·48	− 1·44	*	*	*	*
	Glasgow	51	22	42·7	34·3	38·5	− 4·0	2	27	3	0·73	− 0·14	13·7	+ 7·2	24	+12
	Glenlee ⚓	52	17	41·9	30·9	36·4	− 5·4	0	39	4	1·24	− 0·22	*	*	*	*
	Douglas (Isle of Man)	52	25	45·1	35·5	40·3	− 4·6	9	25	4	4·52	+ 3·45	16·5	+ 1·7	28	+ 3
7. ENGLAND, N.W.	Newton Reigny	51	16	41·7	32·3	37·0	− 8·4	0	35	4	1·52	?	11·8	?	20	?
	Stonyhurst	52	21	42·8	33·9	38·4	− 4·4	2	29	4	4·04	+ 3·00	10·5	0·0	18	0
	Blackpool ℳ	55	20	46·5	37·1	41·8	− 2·1	13	20	5	3·39	+ 2·60	3·4	− 7·2	6	−12
	Manchester (Prestwich)	57	23	43·7	35·3	39·5	− 3·4	5	25	3	2·79	+ 1·94	4·7	?	8	?
	Liverpool Obsy. (Bidston)	55	28	45·1	39·3	42·2	− 2·2	13	8	6	2·39	+ 1·75	7·9	?	13	?
	Chester (Hawarden Bridge)	56	? 26	? 48·0	? 38·4	? 43·2	− 1·5	24	10	4	0·56	?	*	*	*	*
	Llandudno ℳ	57	28	47·0	39·0	43·0	− 3·1	20	8	6	2·89	+ 2·12	11·2	− 1·4	19	− 2
	Holyhead	55	33	47·0	40·9	44·0	− 2·8	19	3	5	3·80	+ 2·87	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	20	46·9	36·3	41·6	− 2·0	14	23	3	1·03	− 0·12	*	*	*	*
	Pembroke	56	33	49·4	42·0	45·7	− 2·0	26	0	6	1·40	+ 0·48	19·2	+ 4·4	31	+ 7
	Clifton	55	26	45·9	38·9	42·4	− 1·9	16	9	3	0·30	− 0·47	*	*	*	*
	Bath	57	19	47·9	37·1	42·5	− 2·4	24	14	3	0·33	?	10·0	?	16	?
	Arlington (N. Devon)	56	24	46·4	37·0	41·7	− 2·7	12	21	4	1·67	+ 0·32	*	*	*	*
	Cullompton ℳ	57	19	48·4	36·4	42·4	− 1·9	26	16	3	0·50	− 0·35	14·0	+ 1·1	23	+ 2
	Falmouth	55	32	48·6	39·8	44·2	− 3·7	25	6	5	0·51	− 0·72	21·6	+ 4·3	34	+ 7
	Plymouth	55	26	48·9	39·0	44·0	− 3·0	27	8	3	0·26	− 0·58	16·2	+ 1·2	26	+ 2
9. IRELAND, N.	Malin Head	52	35	45·7	40·3	43·0	− 2·0	14	5	7	0·87	?	*	*	*	*
	Edenfel (Omagh)	51	21	42·1	34·0	38·1	− 2·9	9	28	3	1·67	+ 0·83	*	*	*	*
	Blacksod Point	53	31	46·0	39·6	42·8	− 3·1	16	7	7	1·94	?	*	*	*	*
	Markree Castle	53	19	46·5	30·2	38·4	− 4·0	13	45	5	1·93	+ 1·00	21·0	+ 7·6	36	+14
	Armagh	52	26	45·6	33·6	39·6	− 3·4	10	32	3	2·53	+ 1·93	13·6	− 0·4	23	0
	Donaghadee	54	32	45·9	38·3	42·1	− 2·5	16	10	4	2·01	+ 1·28	*	*	*	*
10. IRELAND, S.	Dublin	57	30	46·1	38·0	42·1	− 3·6	18	11	5	3·32	+ 2·72	13·9	− 3·2	23	− 5
	Parsonstown	56	24	42·7	35·0	38·9	− 4·8	2	25	3	3·70	+ 3·01	11·8	− 3·6	20	− 6
	Kilkenny	57	23	45·0	36·9	41·0	− 3·5	8	20	3	2·03	+ 1·36	*	*	*	*
	Roche's Point	57	30	48·1	40·9	44·5	− 2·7	22	3	2	1·46	+ 0·39	*	*	*	*
	Valencia	58	29	48·4	39·7	44·1	− 3·6	24	6	4	2·26	+ 0·94	29·5	+13·5	48	+22
	Killarney	61	24	52·3	36·2	44·3	− 1·5	40	16	2	2·15	+ 0·69	*	*	*	*
	Foynes	57	29	46·0	36·3	41.3	− 4·0	11	22	5	2·75	+ 1·78	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	38	51·9	44·1	48·0	− 2·0	42	0	5	1·01	+ 0·17	21·4	?	34	?
	Jersey	56	32	51·0	43·0	47·0	− 1·7	35	0	5	0·71	− 0·23	10·5	− 7·5	16	−12

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

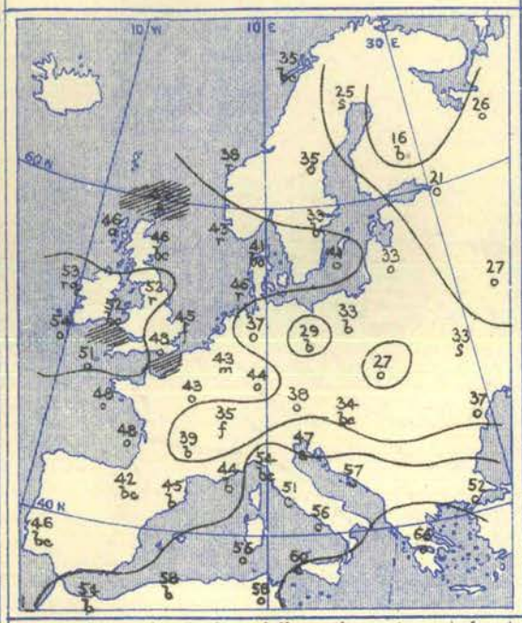
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 10th November.

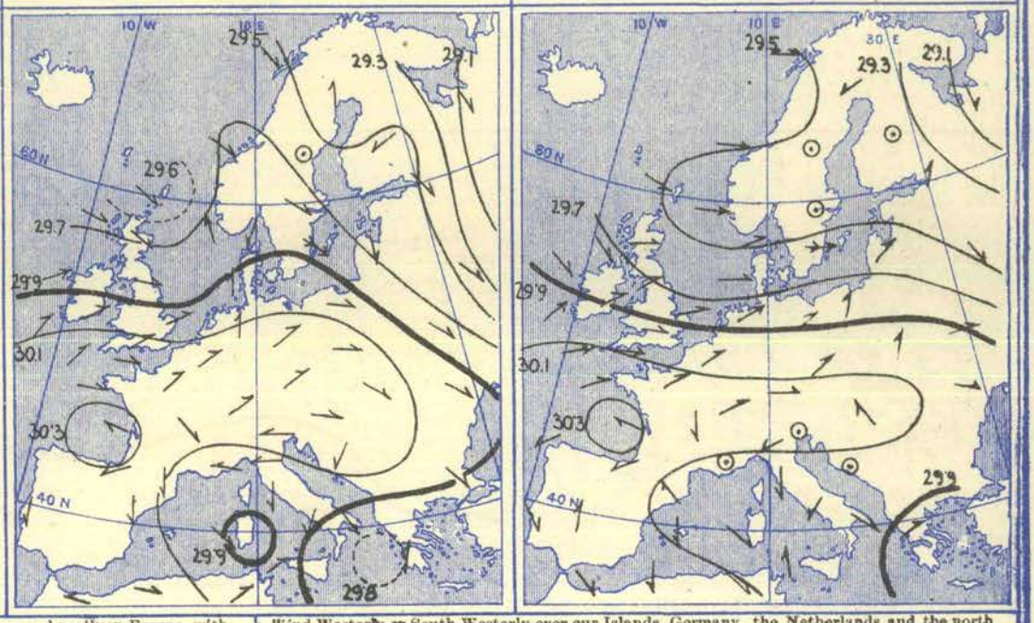
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the greater part of western and northern Europe, with rain in the northern parts of England and Ireland, and also in the west of Norway. Fine in most of the central and southern countries, but dull in Greece and southern Italy; fog in south Germany and the east of France. Rain falling later over the whole of Ireland and the northern parts of Great Britain and the Continent.

Temperature risen slightly over the greater part of north-western and northern Europe; fallen in most other localities. Morning readings highest, 66° at Athens, 60° at Brindisi and Palermo, and 58° at Algiers and Tunis; above 50° at many of our own western and northern stations. Lowest, 16° at Kuopio, 21° at Uleaborg and St. Petersburg, and 25° at Haparanda; below the freezing point in most parts of Russia and Germany. Rising during day to between 50° and 55° over the United Kingdom generally, and to 58° at Valencia; exceeding 60° in most parts of southern Europe, and reaching 69° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.

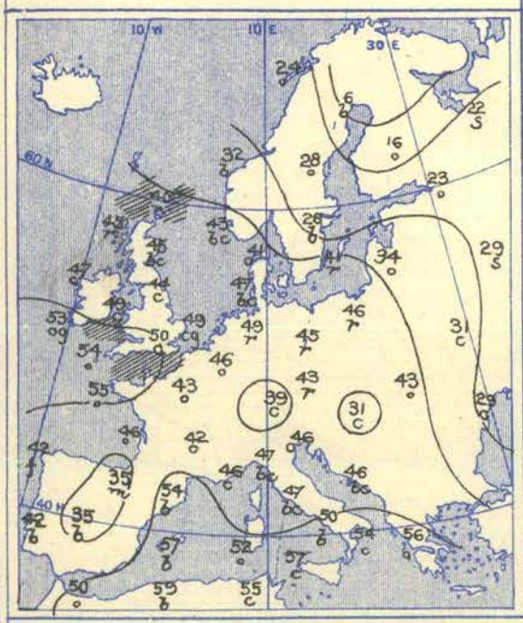


Wind Westerly or South-Westerly over our Islands, Germany, the Netherlands and the north of France; light or moderate in force generally, but very strong in the north-west of Ireland. Southerly on the eastern shores of the North Sea, and strong in force at Skudesnaes. North-Westerly in Russia and the south of Sweden, Northerly in Italy; North-Easterly or Easterly over the Spanish Peninsula and the southern parts of France. Subsequently veering to the Westward in Norway and Denmark; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the south-west of France and the southern parts of the Bay of Biscay; 30·1 ins. and upwards in an anticyclone lying over the whole of central and south-western Europe, and extending northwards over the south of England. Lowest, 29·1 ins. and less in a large depression over northern Russia; 29·6 ins. and less in a shallow disturbance lying off the north of Scotland. Latter system subsequently moving eastwards. Barometer falling in most parts of Europe during day.

Monday, 11th November.

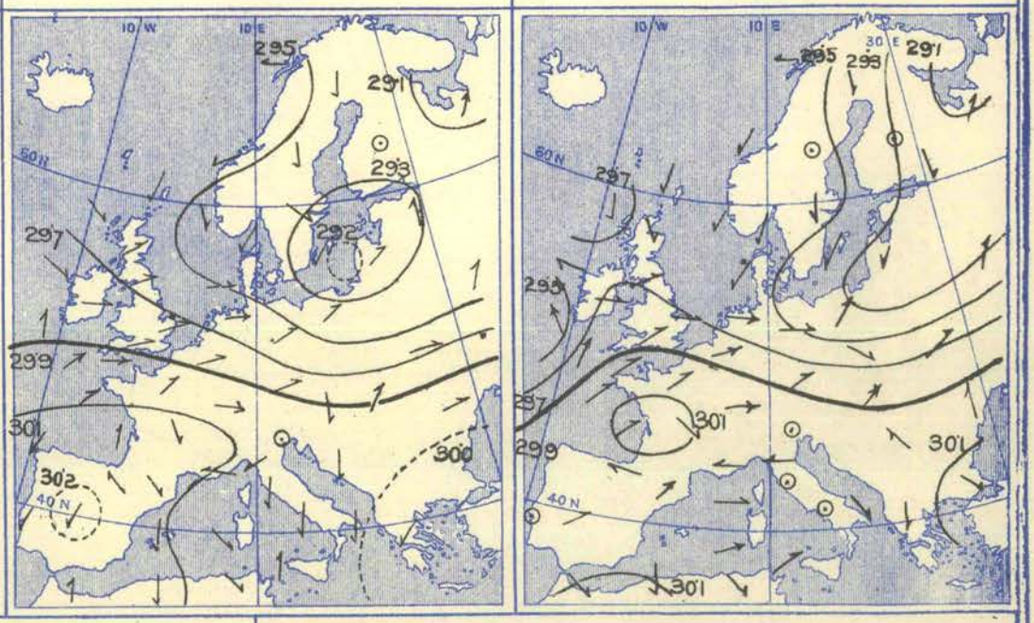
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over western, northern and central Europe generally, with rain in the Hebrides and many parts of Ireland; rain fal'ing also in Germany and at Wisby, and snow at Archangel, Moscow and Hangö. Fine on the east coasts of Great Britain, as well as over the greater part of southern Europe. Rain extending later from the westward over the whole of the United Kingdom; fall extremely heavy in Ireland, Wales and the west and north of England, the amount measured next morning being as much as 2·7 ins. at Parsonstown and Holyhead.

Temperature fallen over north-western and northern Europe and also in Italy, but risen in most other countries. Morning readings highest, 59° at Algiers and 57° at Palma and Palermo; above 50° at most of the Mediterranean stations, and also on our own southern coasts. Lowest, 6° at Haparanda, 8° at Uleaborg and 16° at Kuopio. Rising later to between 50° and 55° in most parts of the United Kingdom, exceeding 60° over the Spanish Peninsula and southern Italy, and reaching 68° at Palermo

Barometer and Wind. 8 a.m. 6 p.m.

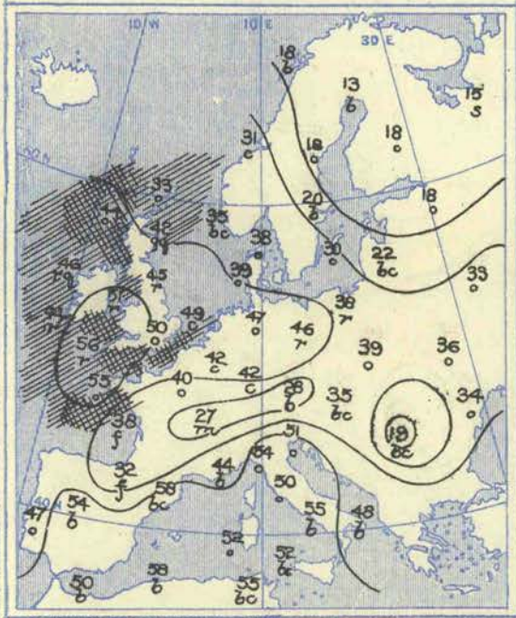


Wind Westerly or South-Westerly over western and central Europe generally, and strong in force on some of the more exposed parts of our west and south-west coasts; Northerly in the extreme north of Scotland, and also over the greater part of Scandinavia. Variable over the southern parts of France, Northerly in Italy, North-Easterly over the Spanish Peninsula. Subsequently backing to the Southward on our own extreme south-west coasts, and increasing considerably in force.

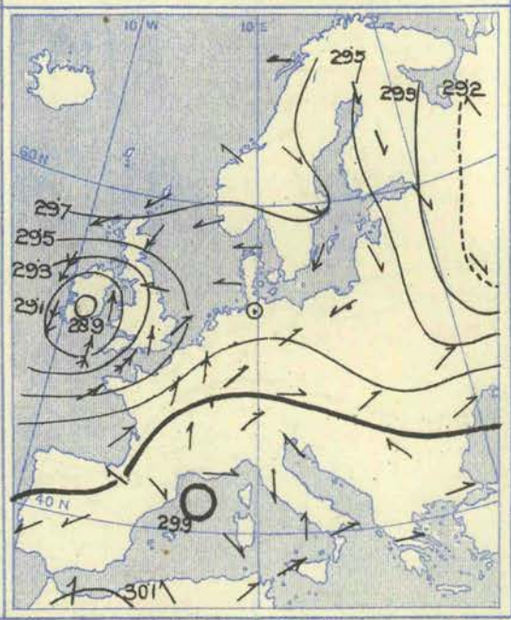
Barometer highest, 30·2 ins. and upwards to 30·1 ins. in an anticyclone lying over the Spanish Peninsula and the greater part of France. Lowest, 29·1 ins. and less in a cyclonic system over the extreme north of Russia; 29·2 ins. and less in another disturbance with its centre over the northern part of the Baltic. Both systems moving eastwards later, but a new and important disturbance approaching our own south-west coasts in evening.

Tuesday, 12th November.

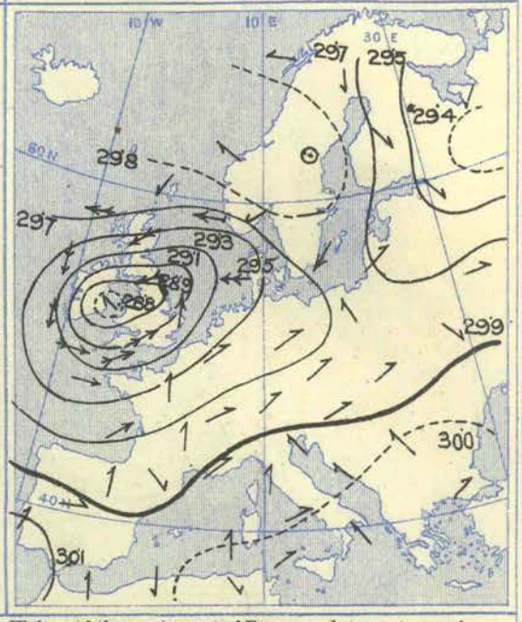
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of Europe with heavy rain in Ireland, Wales and the west and north of England; rain falling also at some of the German stations, and snow at Archangel and Kharkov; foggy in the south-west of France. Fine at many of the Scandinavian stations and also over Italy, Greece and the Spanish Peninsula. Rain falling later over Western Europe generally—very heavily in the northern parts of England and Ireland—amounts recorded in evening (for past 24 hours) being as large as 3·5 ins. at Darwen and 3·0 ins. at Harrogate.

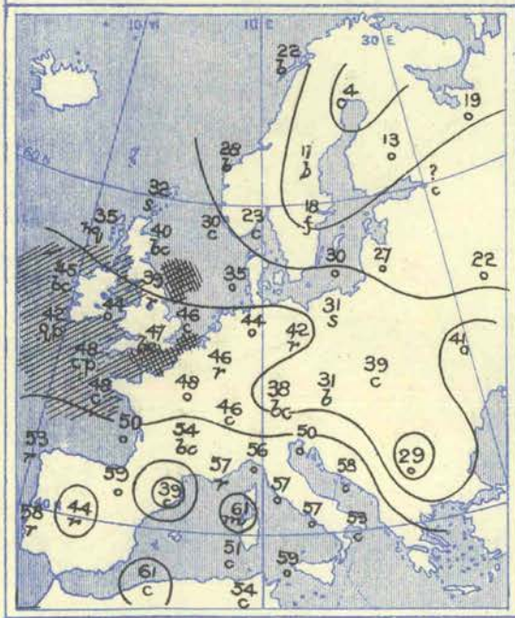
Temperature fallen in most parts of western and northern Europe, but risen slightly in the south of England and more decidedly in Spain and Italy. Morning readings highest, 59° at Sfax, 58° at Barcelona and Algiers, and 55° at Naples, Patras and La Calle; above 50° at many of our own southern stations. Lowest, 13° at Haparanda, 15° at Archangel, and 18° at Uleaborg, Hernösand and St. Petersburg. Remaining below 45° all day in most parts of Scotland, but rising to between 50° and 55° in England and Ireland, and reaching 57° at Scilly. Exceeding 60° over Spain, Italy and the south of France.

Wind Southerly over England, Wales and the greater part of France, and strong to a gale on our western coasts, moderate from the Eastward or North-Eastward in Norway and Denmark, and strong to a gale from the same quarters in Scotland; blowing a strong gale from the Eastward in the north of Ireland and from the Northward in the west of that country, Northerly or North-Westerly over Sweden and western Russia; Westerly or South-Westerly over Germany and Austria, variable in Italy and the south of France; Easterly or North-Easterly in Spain. Subsequently increasing to a strong gale over the whole of our Islands—from East or North-East in the north, but from West or South-West in the south.

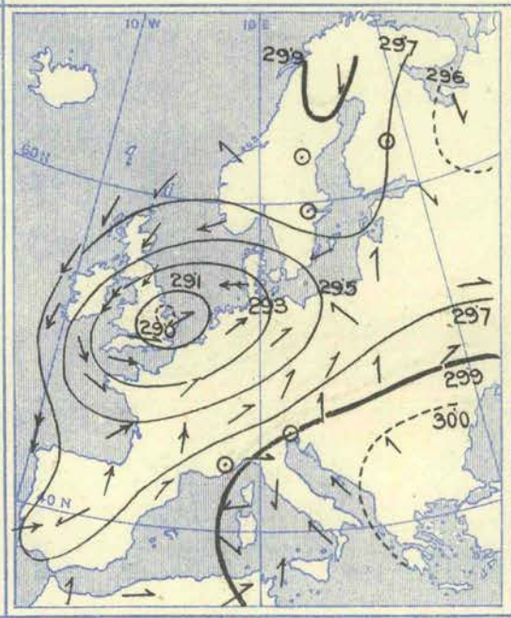
Barometer highest, 30·0 ins. and upwards over the Mediterranean and the south-eastern and extreme southern parts of Europe. Lowest, 28·9 ins. and less in a deep cyclonic system with its centre over the extreme south of Ireland; 29·2 ins. and less in another disturbance over northern Russia. Former depression subsequently moving slowly in an east-north-easterly direction; barometer falling in Great Britain, but rising again quickly in Ireland.

Wednesday, 13th November.

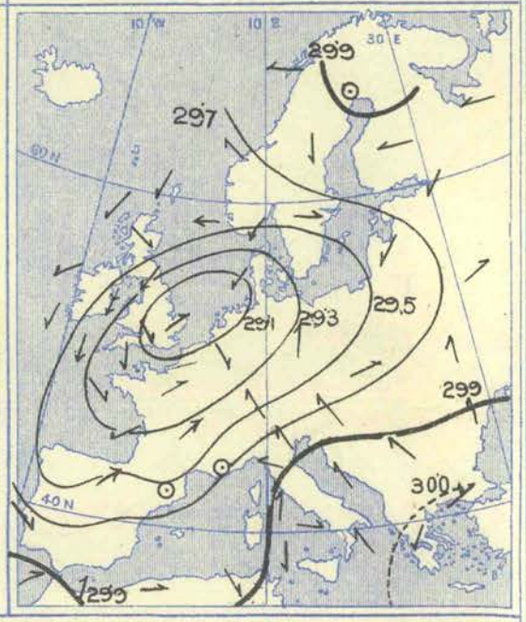
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull at all but the Scandinavian stations, with showers in many parts of England and the south of Ireland; rain falling in north Germany and in several parts of southern Europe, and snow at Neufahrwasser; fog reported locally in Austria and south Germany. Fine at most of the Scandinavian stations. Rain falling later over nearly the whole of Europe—heavily in many places; thunderstorm occurring at Rochefort.

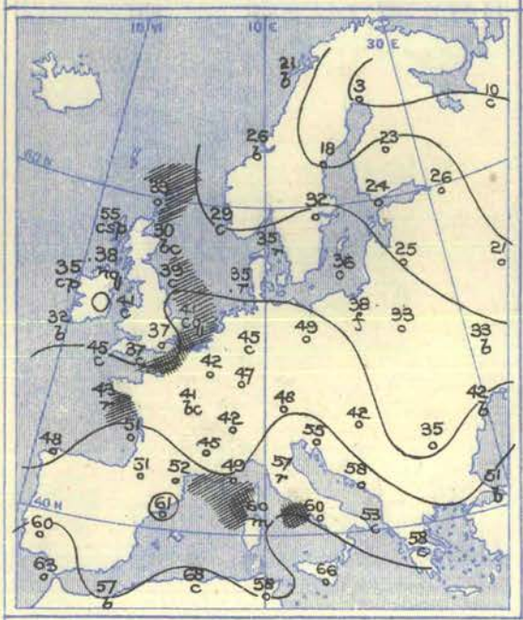
Temperature fallen in all but the southern countries; risen rapidly in the south-west of France. Morning readings highest, 61° at Sanguinaire and Algiers, 60° at Oran and 59° at Palermo; above 65° at many of the Mediterranean, Adriatic and Spanish coast stations. Lowest, 4° at Uleaborg, 7° at Haparanda and 13° at Kuopio; below the freezing point over northern Europe generally and just touching it at Sumburgh Head. Remaining below 45° all day in many parts of our Islands and below 40° in the Shetlands and Hebrides; exceeding 60° over southern Europe and reaching 72° at Palermo.

Wind Easterly or North-Easterly over Norway, Denmark and all the more northern parts of our Islands and blowing a strong gale in the Irish Sea; Northerly on our south-west coasts; strong to a gale from the Westward in the English Channel; Southerly or South-Westerly over France and Central Europe. Variable in Italy. Calm or light from the Northward over Sweden and northern Russia. Wind subsiding later in English Channel, but North-Easterly gale springing up on our north-east coasts.

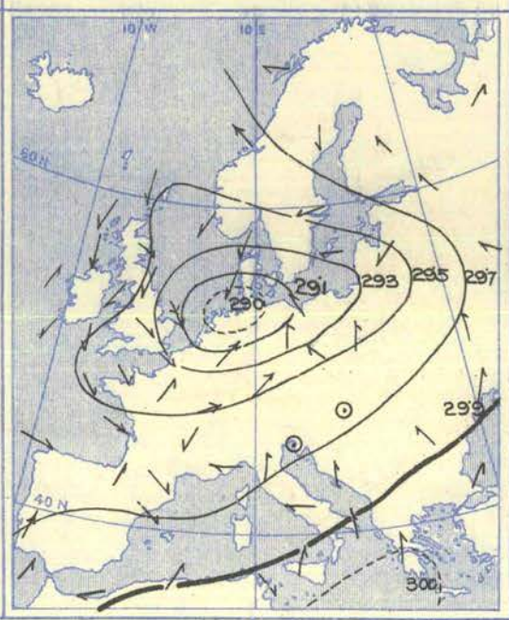
Barometer highest, 30·0 ins. and upwards in an anticyclone over south-eastern Europe; 29·9 ins. and upwards in the north of Sweden. Lowest, 29·1 ins. and less in a cyclonic system, with its centre near the mouth of the Humber. Depression subsequently moving slowly eastwards over the southern part of the North Sea; small secondary systems appearing over various parts of England, France and the Bay of Biscay.

Thursday, 14th November.

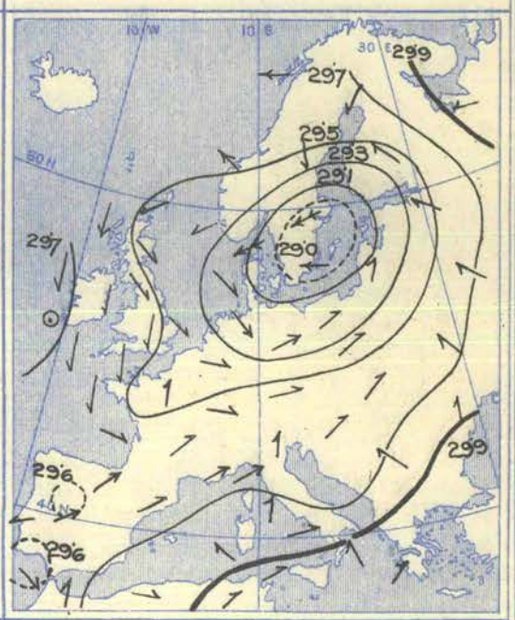
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the United Kingdom generally, but showers of hail or sleet reported at some of our northern stations. Fine also in the west of Norway, but cloudy or dull over the greater part of the Continent, with rain in Denmark as well as in some parts of northern Italy. Snow, hail, or sleet falling later over a considerable portion of the United Kingdom, and rain at many of the continental stations, the fall being heavy in places.

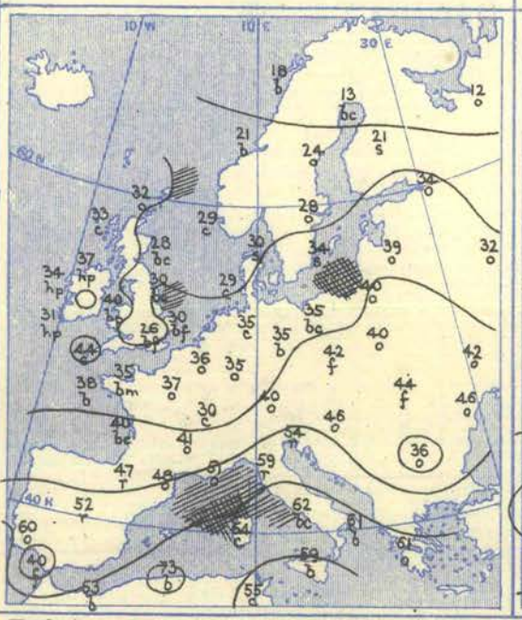
Temperature fallen over our Islands generally, but risen at most of the continental stations. Morning readings highest, 66° at Palermo and Algiers, 61° at Barcelona; not much below 60° over the Mediterranean generally, but below 50° at Nice. Lowest, 3° at Haparanda, 10° at Archangel, and much below the freezing point over central and northern Russia, and the northern half of Scandinavia generally. Lowest in our Islands, 27° at Parsonstown, and 30° at Aberdeen. Rising later to 45° on our south-western coasts, 60° or rather above in the Riviera, to about 65° in many parts of Italy, 77° at Palermo, and to 79° at Algiers.

Wind Northerly over the United Kingdom, strong to a gale on the east coast of England—North-Westerly to Westerly in France, South-Westerly and Southerly, moderate to fresh over central Europe, and fresh or strong from East and North-East over Scandinavia and the Baltic. Light from the Southward in most parts of southern Europe and the Mediterranean. Not much change later, but wind increasing to a strong North-Easterly gale over the Gulf of Finland, the south of Sweden, and the Skager Rack, and gale on our east coast subsiding.

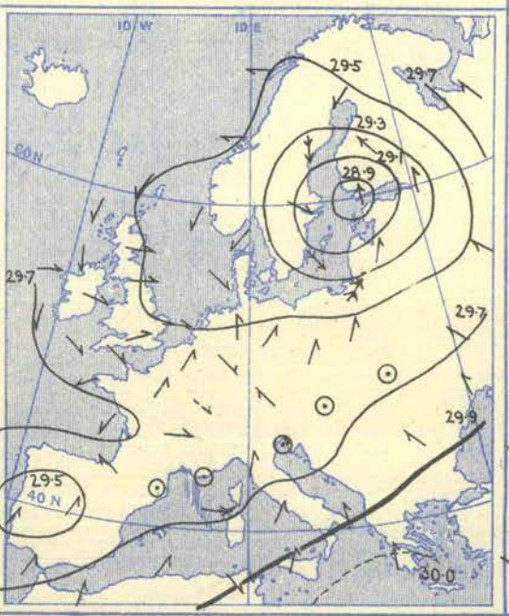
Barometer at 8.0 a.m. highest, 29·9 ins. and upwards over eastern Algeria, the extreme south of Italy, Turkey, and the Black Sea. Lowest, 28·0 ins. and less in a deep cyclonic disturbance over the south-eastern portion of the North Sea and the adjacent parts of the Continent. Cyclonic system moving rather quickly north-eastwards during day, its centre at 6.0 p.m. being near Gothland. Barometer rising quickly on our south-east coasts and over the Netherlands, falling somewhat in Scotland.

Friday, 15th November.

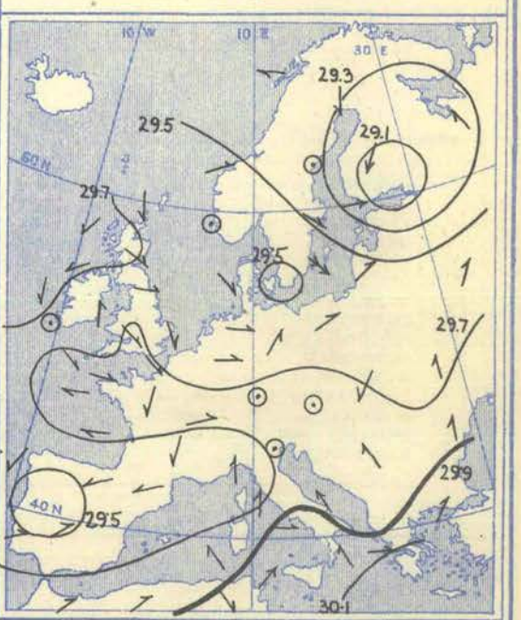
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over western Europe generally but hail showers reported at several of our own western stations and snow at Liverpool. Dull in most other parts of the Continent, with rain at several of the Spanish, Italian, and Austrian stations and snow at Wisby. Fog prevailing in the east and south-east of England, as well as in some parts of eastern Germany and the south of Russia. Snow or hail showers falling later in the west and north of our Islands and heavy rain in several parts of southern Europe—as much as 1·2 ins. at Trieste.

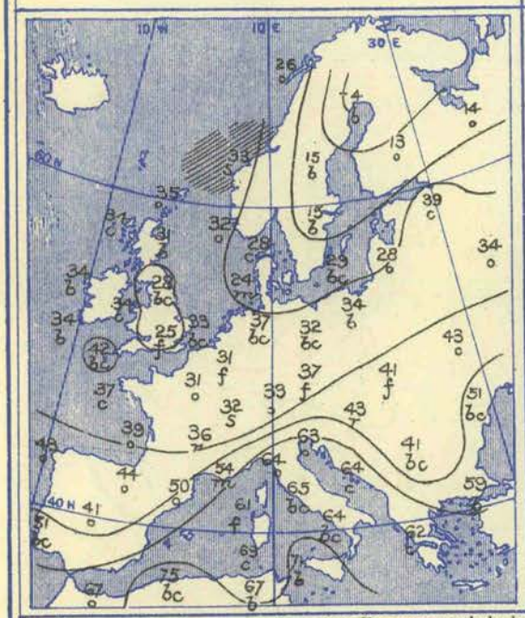
Temperature fallen in all but the southern countries. Morning readings highest, 73° at Algiers and 64° at Leghorn, Cagliari and Oran; slightly above 60° at several of the Mediterranean and Adriatic stations. Lowest, 10° at Uleaborg, 12° at Archangel, and 13° at Haparanda; below the freezing point in many parts of the United Kingdom, the lowest readings reported being 20° at Newton Reigny and 22° at Bath. Remaining below 40° all day at several places in Great Britain; exceeding 60° in many parts of southern Europe and reaching 79° at Palermo.

Wind light to moderate from the Westward or North-Westward over the United Kingdom as a whole but South-Westerly over the Netherlands and Germany, with a gale at Memel, and Southerly or South-Easterly over Russia. Strong to a gale from the Northward or North-Westward in Sweden; Easterly in the west of Norway; North-Easterly in the Shetlands and Hebrides. Variable in France; South-Westerly in Spain; Southerly in Italy. Subsequently veering to the Northward in most parts of our Islands; no important change occurring elsewhere.

Barometer highest, 30·0 ins. and upwards over Greece and the eastern parts of the Mediterranean. Lowest, 28·9 ins. and less in a deep cyclonic system with its centre off the mouth of the Gulf of Finland; 29·5 ins. and less in a shallower disturbance over the Spanish Peninsula. Both cyclonic systems moving north-eastwards later; shallow secondary disturbance appearing over the south of Sweden in the rear of the northern depression.

Saturday, 16th November.

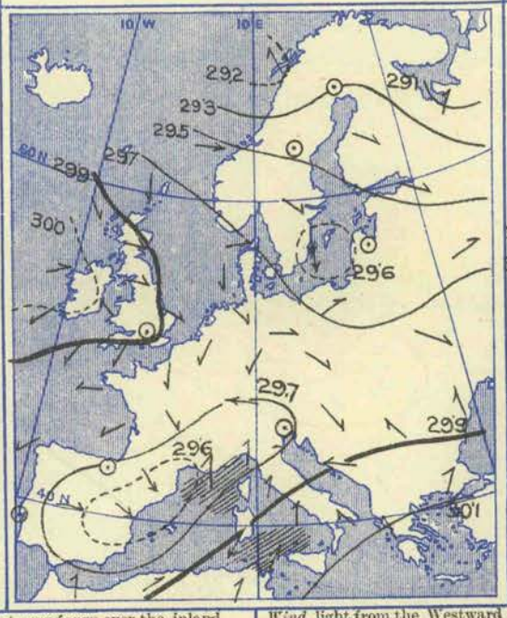
Temperature and Weather. 8 a.m.



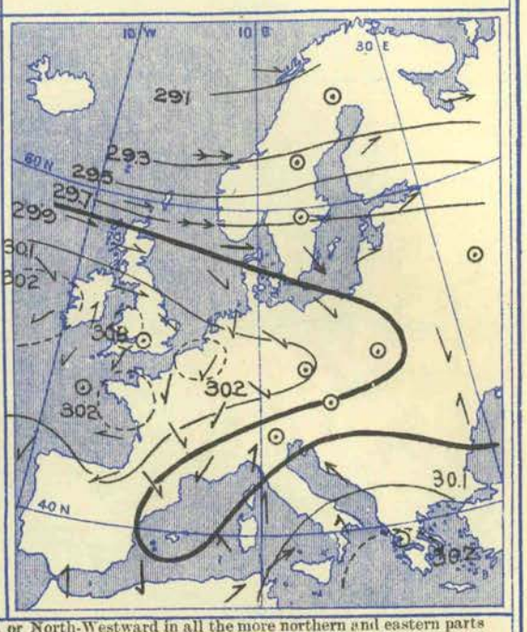
Weather in morning fine over north-western Europe as a whole, but very foggy over the inland parts of England and Ireland; dull in the north of Scotland and the west of Norway, with snow at Wick and Christiansund. Dull in most other parts of Europe, with fog at some of the Austrian and southern Russian stations and with rain at Lyons; snow falling at Belfort and also at Uleaborg. Slight rain occurring later in the north of Scotland and larger quantities in the west of Norway; snow reported in some parts of Germany and central France.

Temperature risen in Scotland and Norway and also in Italy and the south of France; fallen elsewhere. Morning readings highest, 75° at Algiers, 71° at Palermo, and 65° at Rome; above 60° at most of the Mediterranean and Adriatic stations. Lowest, (1) −4° Fahr. at Haparanda, +6° at Uleaborg, and 12° at Karstad. Sharp frost reported over Great Britain, the reading at Newton Reigny (Penrith) being as low as 16°. Remaining below the freezing point all day over the inland parts of England (maximum reading at Loughborough only 27°). Hard frost experienced over England at night, but thermometer rising briskly in the north.

Barometer and Wind. 8 a.m.



6 p.m.



Wind light from the Westward or North-Westward in all the more northern and eastern parts of the United Kingdom, and also in Denmark and North Germany; North-Easterly over our southern coasts and the Bay of Biscay; Northerly over central France. Calm over the Gulf of Bothnia but Northerly in the south of Sweden, with a gale at Wisby; Westerly over the greater part of Russia; variable in Austria; Southerly in Italy. Westerly gale springing up later on the Norwegian coasts; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Greece and the eastern parts of the Mediterranean; 30·0 ins. and upwards in another system extending over Ireland from the westward. Lowest, 29·1 ins. and less in the extreme north of Russia; 29·2 ins. and less in a depression off the north-west of Norway; 29·6 ins. and less in a secondary area over the northern part of the Baltic, and also in another system over the eastern and central parts of Spain. Anticyclone over the west of our Islands, spreading eastwards during the day and increasing in height but barometer falling in the north of Scotland.

GENERAL NOTES.

During the early part of the week the southern parts of Europe were under the influence of a large anticyclone, the central area being shown at first over the Bay of Biscay and afterwards over France. In the more northern countries the weather was influenced by cyclonic systems which skirted our own northern coasts, the centres afterwards travelling eastwards across the northern parts of Scandinavia and Russia. The prevailing winds were, therefore, Westerly (South-Westerly to North-Westerly), and the weather very changeable, temperature being high over our Islands and their immediate neighbourhood, but low over northern Europe.

After the 11th a very important change took place, the centre of a deep cyclonic system appearing over the south of Ireland at night, and afterwards moving slowly in an east-north-easterly direction across the whole of north-western and northern Europe, the minimum not reaching northern Russia until the evening of the 15th. The disturbance was accompanied thoughout nearly its entire progress by strong gales, the Easterly and North-Eastely gales which blew on our own north and east coasts on the 12th and 13th being attended by numerous maritime casualties and serious loss of life. As the centre passed across our Islands a very heavy fall of rain occurred over Ireland and the northern parts of England and Wales, the total amounting in many places to more than three inches. With the departure of the depression the barometer rose steadily over north-western Europe, and an anticyclone spread gradually over our Islands from the westward. The wind consequently fell light and temperature decreased rapidly, a severe frost being experienced at the close of the week in most parts of the United Kingdom, with thick fogs over England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 272.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	11·6	+ 2·6	21	+ 4	BRIGHTON	19·9	+ 3·6	32	+ 6
STRATHPEFFER SPA	16·9	+ 6·7	31	+13	WORTHING	22·6	?	36	?
EDINBURGH	10·3	− 0·5	18	− 1	BOGNOR	22·0*	?	35*	?
MORPETH	20·0	?	34	?	WATERGATE (Emsworth)	20·2	?	33	?
NEWCASTLE-ON-TYNE	14·0	?	24	?	WESTBOURNE (Emsworth)	19·1*	+ 4·4	31*	+ 8
OSWALDKIRK (Yorkshire)	17·9	+ 6·9	30	+12	VENTNOR HOSPITAL	18·5	+ 2·9	30	+ 5
YORK	14·7	+ 5·2	25	+ 9	BOURNEMOUTH	20·0	?	32	?
LOWESTOFT	15·2	?	25	?	SOUTHPORT	10·5	?	18	?
HOLLESLEY BAY	17·1	?	28	?	RHYL	*	?	*	?
SHEFFIELD	13·8	?	23	?	COLWYN BAY		?		?
WORKSOP	13·9	+ 2·7	23	+ 5	ABERDOVEY	14·9*	?	25*	?
THURCASTON (Leicestershire)	8·2	− 4·1	14	− 6	TENBY	16·0	+ 1·2	26	+ 1
MARGATE	?	?	?	?	NEWQUAY	17·8	0·0	28	0
BROADSTAIRS	14·1	?	23	?	TORQUAY	13·5	+ 3·5	29	+ 5
EASTBOURNE	20·8	+ 5·6	34	+ 9	CAHIR (Duneske)	15·2*	?	25*	?
					GUERNSEY	4·8*	−10·0	7*	−16

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Aug. 31st, 1901	Clifton	80	47	64·8	53·1	58·7	− 0·2	117	0	5	1·23	+ 0·45	—	—	—	—
" " " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	46·1	?	48	?
" " " " "	Torquay	—	—	—	—	—	—	—	—	—	—	—	31·8	−12·1	33	−13

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 47.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 23RD, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 278.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	12	43·6	32·9	38·3	3 below	4	−12	33	+14	2335	+361	678	+12
	1. SCOTLAND, EAST	56	15	44·8	33·9	39·4	1 below	8	− 9	31	+ 7	2487*	+167	805	+67
	2. ENGLAND, N.E.	56	23	48·9	37·6	43·3	1 above	28	+ 8	12	− 5	2818	+267	598	+18
	3. ENGLAND, EAST	56	18	49·0	37·5	43·2	1 above	27	+ 3	13	− 5	3096	+144	636	+ 2
	4. MIDLAND COUNTIES	56	15	48·3	36·1	42·2	1 above	26	+ 3	17	− 3	3042	+154	695	+38
	5. ENGLAND, SOUTH	56	18	49·7	38·3	44·1	0 (average)	30	− 1	10	− 2	3274	+ 23	499	+41
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	20	47·9	37·3	42·6	0 (average)	24	+ 2	13	− 1	2649	+159	540	+36
	7. ENGLAND, N.W.	54	16	48·4	38·9	43·6	1 above	24	− 1	9	− 3	2926	+188	504	+44
	8. ENGLAND, S.W.	58	18	50·7	39·0	44·8	0 (average)	32	− 2	8	− 1	3215	+173	427	+71
	9. IRELAND, NORTH	54	22	49·2	40·5	44·9	2 above	27	+ 3	4	− 9	2646	+ 12	420	− 6
	10. IRELAND, SOUTH	57	18	51·2	40·6	45·9	1 above	33	0	4	− 6	3060	+ 50	356	+46
	—CHANNEL ISLANDS	57	33	54·0	44·5	49·3	1 above	51	0	0	− 2	3747	+148	160	+33

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 278.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	18	5 more	206	+ 1	37·8	− 6·2	10	+ 3	20	+ 7	1248	+157	30	+ 4
	1. SCOTLAND, EAST	4	9	2 more	177	+ 1	25·0	− 3·3	10	− 1	18	− 1	1420	+164	34	+ 4
	2. ENGLAND, N.E.	5	10	4 more	150	−14	21·4	− 1·7	11	+ 1	20	+ 2	1489	+232	36	+ 6
	3. ENGLAND, EAST	4	2	3 less	138	−26	16·9	− 5·9	15	+ 1	25	+ 3	1747	+159	40	+ 4
	4. MIDLAND COUNTIES	4	3	3 less	138	−19	22·2	− 3·0	10	0	18	0	1442	+145	36	+ 3
	5. ENGLAND, SOUTH	3	2	4 less	128	−25	20·6	− 4·9	14	+ 1	24	+ 1	1789	+180	43	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	27	14 more	185	− 5	44·1	− 2·1	11	+ 1	20	+ 3	1494	+189	36	+ 5
	7. ENGLAND, N.W.	5	18	10 more	163	− 9	26·4	− 5·1	10	+ 1	18	+ 3	1637*	+279	39	+ 7
	8. ENGLAND, S.W.	4	6	4 less	150	−28	29·2	− 7·2	17	+ 3	28	+ 6	1670	+ 69	41	+ 2
	9. IRELAND, NORTH	5	16	8 more	203	+ 1	34·0	+ 1·8	14	+ 2	25	+ 3	1304	+ 85	31	+ 2
	10. IRELAND, SOUTH	4	3	7 less	170	−15	32·9	− 3·3	14	− 1	25	− 1	1429	+ 39	35	+ 1
	— CHANNEL ISLANDS	3	3	6 less	169	− 9	25·9	− 3·2	19	0	31	0	1861	+ 38	46	+ 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was of an unsettled, rainy character generally, but improved considerably in most parts of the Kingdom towards its close, although fog became prevalent over central England.

Temperature did not differ materially from the mean over the United Kingdom as a whole, but was 2° above it in Ireland N. and 3° below it in Scotland N. The highest of the maxima were registered during the middle of the week, and ranged from 58° in England S.W. to 54° in England N.W., Ireland N. and Scotland N. and W. The lowest of the minima, which were recorded on the first day of the period, varied from 12° in Scotland N. to 23° in England N.E. and to 33° in the Channel Islands.

Rainfall exceeded the mean in Scotland, England N.E. and N.W., and also Ireland N., but was less in all other districts. The excess in Scotland W., England N.W., and Ireland N. was very large, and mainly caused by some heavy falls between the 18th and 20th or 21st, when more than an inch was measured in some localities on two or even three successive days.

Bright Sunshine slightly exceeded the mean for the time of year in most districts. The percentage of the possible duration ranged from 31 in the Channel Islands and 28 in England S.W., to 18 in Scotland E., the Midland Counties and England N.W.

Barometer and Wind.—At the commencement of the week an anticyclone stretched from the southern parts of our Islands east-south-eastwards to central Europe ; the barometer was rising generally, and the wind, which was mainly from the Westward, moderate or fresh in force. As the week progressed, the anticyclone moved slowly southwards and began to disperse ; large cyclonic areas appeared in the far north, and secondary systems passed over our Islands from the westward, causing an increase in the force of the Westerly winds. By Friday another anticyclone began to move over our Islands from the northward, while a small cyclonic system moved southwards down the Irish Sea and St. George's Channel. With this change the wind shifted to the Northward or North-Eastward over the whole Kingdom, but by the end of the week, when the anticyclone lay completely over us, the wind had shifted to the Westward again in the north of Scotland.

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II.—DATA from which the SUMMARY on page 277 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	27	40·6	31·9	36·3	− 5·4	0	40	4	0·57	− 0·40	*	*	*	*
	Stornoway	53	27	46·1	34·7	40·4	− 1·1	11	28	4	1·00	− 0·25	2·1	− 6·6	4	−13
	Wick	51	23	43·6	34·1	38·9	− 2·1	4	29	5	0·76	+ 0·08	*	*	*	*
	Lairg Ⓢ	50	12	43·2	28·5	35·9	− 2·3	3	48	5	1·30	+ 0·46	*	*	*	*
	Glencarron Ⓢ	51	22	?43·2	?32·4	?37·8	? − 2·2	?3	?34	5	4·32	+ 2·07	*	*	*	*
	Fort Augustus Ⓢ	52	19	44·1	33·8	39·0	− 2·0	6	31	5	1·71	+ 0·65	9·8	+ 6·0	18	+11
	Fort William Ⓢ	54	23	44·2	34·9	39·6	− 2·4	6	27	5	2·93	+ 1·04	9·0	+ 3·5	17	+ 7
1. SCOTLAND, E.	Nairn	53	24	43·9	34·3	39·1	− 1·2	5	28	5	1·45	+ 0·96	*	*	*	*
	Aberdeen	55	28	44·6	35·1	39·9	− 1·3	7	26	5	0·97	+ 0·25	15·5†	+ 4·0†	29†	+ 8†
	Braemar Ⓢ	50	15	39·5	30·2	34·9	− 2·7	0	50	5	0·81	− 0·04	*	*	*	*
	Ochtertyre Ⓢ	55	21	46·0	33·4	39·7	− 0·6	11	33	4	0·86	− 0·16	*	*	*	*
	Leith Ⓢ	55	26	47·6	36·3	42·0	− 0·3	16	16	3	0·70	+ 0·23	*	*	*	*
	Marchmont Ⓢ	56	28	47·1	34·3	40·7	+ 0·7	14	31	4	0·77	0·00	6·0	− 5·0	11	− 9
2. ENGLAND, N.E.	Alnwick Castle	56	24	49·3	35·9	42·6	+ 0·8	30	17	5	1·27	+ 0·53	*	*	*	*
	Durham	53	28	47·6	37·5	42·6	+ 1·9	23	13	4	1·37	+ 0·75	10·5	− 0·9	19	− 1
	Shields	55	26	49·4	36·7	43·1	+ 0·5	30	15	5	1·78	+ 1·25	*	*	*	*
	Scarborough Ⓜ	54	29	50·2	38·7	44·5	+ 1·7	31	9	6	0·93	+ 0·30	13·8	?	25	?
	Spurn Head	54	32	49·4	40·1	44·8	+ 1·4	28	5	4	0·34	− 0·16	*	*	*	*
	Fulbeck (Lincolnshire)	53	23	47·6	36·8	42·2	+ 1·4	23	15	3	0·30	− 0·14	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	54	20	47·9	36·7	42·3	+ 0·8	24	15	4	0·08	− 0·52	12·6	+ 0·6	22	+ 2
	Yarmouth	54	26	48·6	38·6	43·6	+ 0·8	25	10	6	0·30	− 0·34	*	*	*	*
	Geldeston	54	24	49·6	38·6	44·1	+ 1·4	29	10	5	0·32	− 0·25	14·3	+ 0·7	25	+ 2
	Cambridge	56	20	50·3	36·3	43·3	+ 1·5	33	16	3	0·14	− 0·30	15·8	+ 1·6	27	+ 4
	Felixstowe	54	27	48·5	38·3	43·4	+ 0·6	25	10	6	0·43	?	17·4†	?†	30†	? †
	Rothamsted	54	18	49·0	36·2	42·6	+ 1·0	29	16	2	0·10	− 0·51	14·1	+ 1·4	24	+ 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	26	50·0	38·9	44·5	+ 3·1	31	9	4	0·26	− 0·18	*	*	*	*
	Loughborough	55	17	48·4	34·4	41·4	− 0·6	18	31	4	0·30	− 0·21	*	*	*	*
	Colly Weston (Stamford)	55	20	48·6	36·4	42·5	+ 1·5	27	16	4	0·21	?	*	*	*	*
	Cheadle Ⓜ	51	18	47·1	36·6	41·9	+ 1·0	14	23	6	0·64	− 0·05	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	52	21	47·4	37·4	42·4	+ 0·4	22	13	3	0·48	− 0·07	7·6	?	13	?
	Churchstoke Ⓜ	53	19	47·6	35·3	41·5	+ 0·1	16	28	5	0·57	− 0·18	10·0	− 0·9	18	− 1
	Hereford (Belmont) Ⓜ	56	15	49·1	34·9	42·0	− 0·5	20	20	2	0·28	− 0·29	*	*	*	*
	Cirencester	52	18	47·5	34·7	41·1	− 0·2	15	29	3	0·20	− 0·47	13·2	+ 1·2	23	+ 2
	Oxford	53	22	48·7	36·6	42·7	0·0	28	15	2	0·10	− 0·44	11·5	− 0·9	20	− 1
5. ENGLAND, S.	London	55	20	48·9	35·7	42·3	− 1·1	29	18	3	0.28	− 0·25	3·5†	− 3·9†	6†	− 7†
	Swarraton (Alresford) Ⓜ	54	18	48·3	33·9	41·1	− 0·8	18	33	2	0·22	− 0·50	*	*	*	*
	Dungeness	55	23	50·4	38·6	44·5	− 0·3	32	10	4	0·45	− 0·13	10·8	?	18	?
	Hastings (St. Leonards)	56	33	49·9	40·8	45·4	+ 0·7	29	3	5	0·18	− 0·57	16·4	+ 1·1	28	+ 2
	Southampton	56	23	50·9	38·1	44·5	+ 0·1	34	11	4	0·08	− 0·61	11·5	− 1·5	19	− 3
	Portland Bill	56	34	51·7	44·0	47·9	+ 1·9	41	0	4	0·17	?	*	*	*	*
	Shaftesbury Ⓜ	52	32	48·1	37·3	42·7	+ 1·1	25	13	2	0·27	− 0·53	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	26	48·0	37·3	42·7	− 0·2	25	13	4	3·45	+ 1·48	*	*	*	*
	Glasgow	53	27	46·1	37·3	41·7	+ 0·1	11	19	5	1·58	+ 0·70	6·2	+ 0·7	11	+ 1
	Glenlee Ⓢ	54	20	47·5	33·6	40·6	+ 0·2	15	34	6	4·83	+ 3·35	*	*	*	*
	Douglas (Isle of Man)	53	25	49·8	40·9	45·4	+ 1·2	28	3	6	0·95	− 0·11	15·8	+ 2·4	28	+ 5
7. ENGLAND, N.W.	Newton Reigny	53	16	47·6	34·0	40·8	+ 1·1	16	32	5	2·43	?	8·8	?	16	?
	Stonyhurst	52	25	47·0	38·1	42·6	+ 0·8	21	11	5	4·02	+ 2·98	7·6	− 1·6	15	− 2
	Blackpool Ⓜ	52	24	48·9	39·6	44·3	+ 1·6	26	7	7	1·69	+ 0·92	12·4	+ 3·2	22	+ 6
	Manchester (Prestwich)	52	23	47·7	37·9	42·8	+ 1·0	23	11	5	1·91	+ 1·08	2·8	?	?	?
	Liverpool Obsy. (Bidston)	53	25	48·6	39·3	44·0	+ 0·6	25	8	6	0·63	0·00	8·1	?	14	?
	Chester (Hawarden Bridge)															
	Llandudno Ⓜ	54	30	50·0	41·1	45·6	+ 0·6	29	3	5	1·13	+ 0·36	13·5	+ 2·2	24	+ 5
	Holyhead	53	33	48·9	42·0	45·4	− 0·6	24	0	5	0·63	− 0·30	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	20	48·9	36·4	42·7	+ 0·3	28	16	6	1·10	− 0·06	*	*	*	*
	Pembroke	58	34	53·0	43·6	48·3	+ 1·5	44	0	4	0·49	− 0·41	15·5	+ 2·0	27	+ 5
	Clifton	53	24	50·7	38·5	44·6	+ 1·5	33	10	4	0·11	− 0·66	*	*	*	*
	Bath	54	18	49·3	32·7	41·0	− 2·7	20	38	3	0·29	?	10·7	?	18	?
	Arlington (N. Devon)	52	26	49·1	38·7	43·9	+ 0·5	27	9	4	1·86	+ 0·50	*	*	*	*
	Cullompton Ⓜ	56	19	51·0	36·0	43·5	+ 0·5	36	17	3	0·46	− 0·40	13·0	+ 1·7	22	+ 3
	Falmouth	55	36	51·5	44·5	48·0	+ 0·7	42	0	4	0·27	− 0·97	24·3	+ 8·8	40	+14
	Plymouth	58	26	52·2	41·2	46·7	+ 0·7	36	2	4	0·24	− 0·61	15·8	+ 2·1	26	+ 3
9. IRELAND, N.	Malin Head	52	34	48·4	41·1	44·8	+ 0·6	23	3	5	2·79	?	*	*	*	*
	Edenfel (Omagh)	53	22	47·7	36·3	42·0	+ 1·1	16	16	5	1·51	+ 0·67	*	*	*	*
	Blacksod Point	53	33	50·7	44·0	47·4	+ 2·2	38	0	7	1·59	?	*	*	*	*
	Markree Castle	54	27	49·8	39·7	44·8	+ 2·4	29	6	5	1·97	+ 1·03	15·4	+ 3·4	28	+ 7
	Armagh	53	31	49·2	40·1	44·7	+ 2·7	27	5	5	0·91	+ 0·30	11·5	− 1·0	21	− 2
	Donaghadee	54	32	49·4	41·7	45·6	+ 2·0	26	1	4	0·82	+ 0·10	*	*	*	*
10. IRELAND, S.	Dublin	55	28	50·5	42·6	46·6	+ 2·0	32	0	5	0·22	− 0·37	12·7	− 2·8	22	− 5
	Parsonstown	53	23	49·0	38·1	43·6	+ 1·2	28	11	6	0·36	− 0·31	12·1	− 1·7	21	− 3
	Kilkenny	55	18	49·6	37·6	43·6	+ 0·2	30	12	4	0·15	− 0·53	*	*	*	*
	Roche's Point	54	29	52·0	41·7	46·9	+ 0·6	36	1	3	0·22	− 0·90	*	*	*	*
	Valencia	56	27	52·4	43·0	47·7	+ 0·6	40	0	5	0·44	− 0·89	17·6	+ 3·3	30	+ 6
	Killarney	58	22	53·8	40·0	46·9	+ 1·9	43	6	3	0·26	− 1·25	*	*	*	*
	Foynes	56	26	50·8	41·2	46·0	+ 1·6	31	2	4	0·63	− 0·37	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	38	54·0	44·7	49·4	+ 0·1	52	0	2	0·06	− 0·80	27·4	?	45	
	Jersey	57	33	53·9	44·3	49·1	+ 1·4	50	0	4	0·51	− 0·43	20·1	+ 3·6	32	+ 5

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

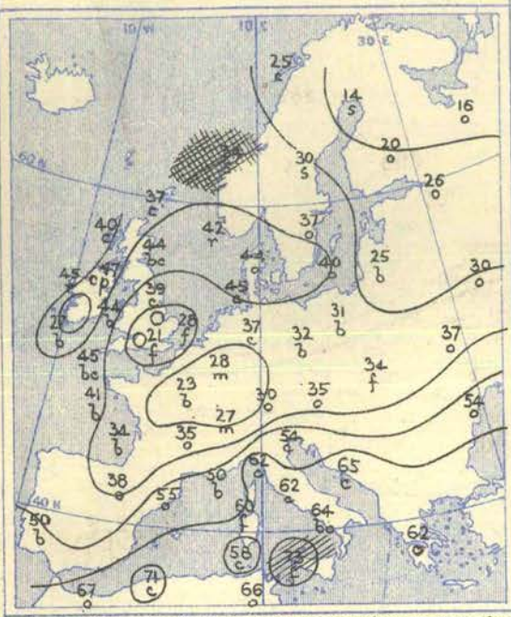
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

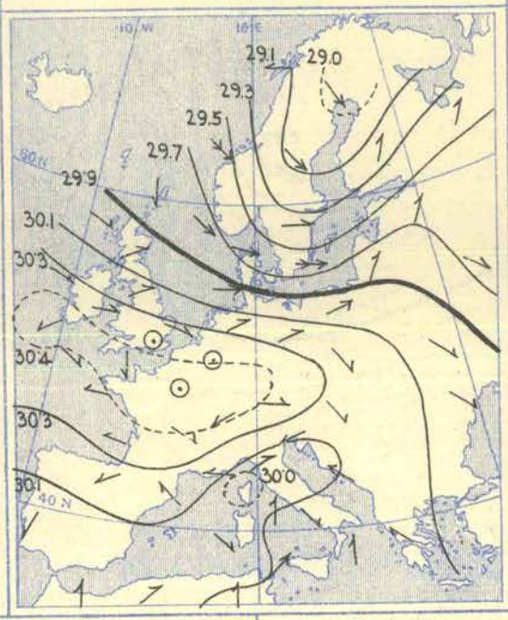
ERRATUM.—In last week's Report the sunshine values at Blackpool were in error. The correct figures should read 9·7 hrs., − 0·9 hr., 16 %, − 2 %.

Sunday, 17th November.

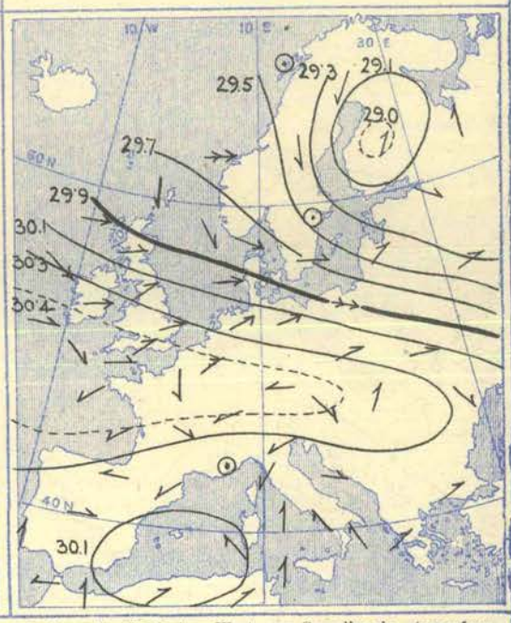
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at most of our more southern stations and over the greater part of France, but foggy over central England and at Parsonstown. Cloudy or dull in most other parts of our area, with snow in Sweden and at Christiansund, and rain at Skudesnaes and on the north-west coasts of Ireland. Fog at Lemberg and Palermo. Rain falling later on our northern and western coasts, as well as in the Netherlands, Denmark and north Germany. Fog in our Islands dispersing.

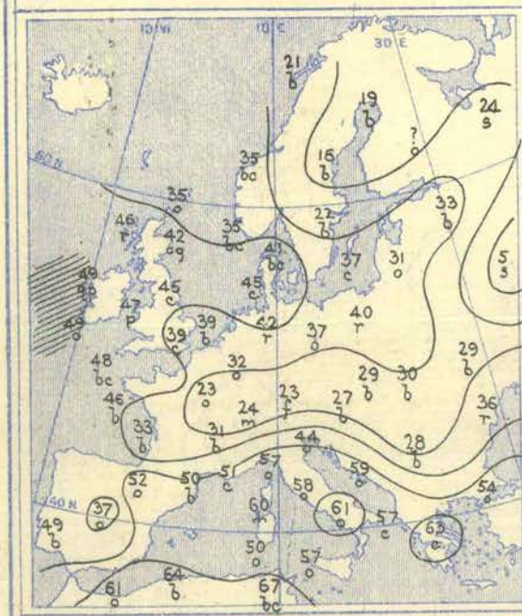
Temperature at 8 a.m.: highest, 73° at Palermo, 71° at Algiers, and above 60° in Algeria and Italy generally. Highest in the United Kingdom, 47° at Malin Head. Lowest, (1) 14° at Haparanda, 16° at Archangel; (2) 18° at Loughborough, 19° at Bath, 21° in London; (3) 23° at Paris. Rising quickly over our Islands later, and reaching a maximum of 50° and upwards on parts of our west and south-west coasts. Maximum readings nearly as high as 70° at some southern French stations, and above that value in many parts of Italy and Algeria.

Wind in morning strong to a gale from North-West or West over Scandinavia, strong from West over north Germany, and moderate from South-West over Finland and northern Russia. Light to fresh from the Westward over nearly the whole of the United Kingdom and central Europe. Light and variable over the Mediterranean generally, but a cyclonic circulation of light winds over the Gulf of Genoa. Westerly wind increasing later on our north-west coasts and on the shores of the Baltic and Gulf of Finland. Not much change elsewhere, but Westerly current extending more completely over our Islands.

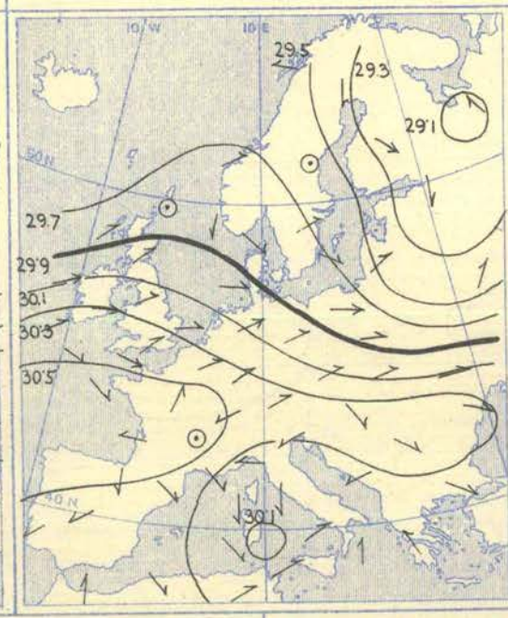
Barometer at 8 a.m.: highest, 30·4 ins. and upwards in an irregularly-shaped zone stretching from a little to the south-westward of Ireland over the south of England, the Channel, and northern and central France, to southern Germany. Lowest, 29·0 to 29·4 ins. in a cyclonic disturbance lying over the north of Scandinavia and Finland; 29·9 ins. and less over the Black Sea; and 30·0 ins. and less over the Gulf of Genoa. Not much change during day, but northern disturbance moving south eastwards and anticyclonic band extending somewhat in length.

Monday, 18th November.

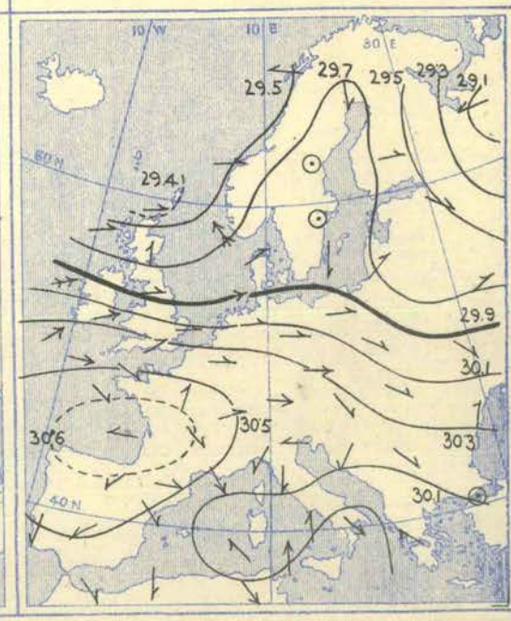
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Scandinavia, many parts of France, and over central Europe. Cloudy or dull elsewhere, with rain on some of our northern and north-western coasts, and also in north Germany. Rain later at nearly all our own stations, on the eastern shores of the North Sea, and in Germany.

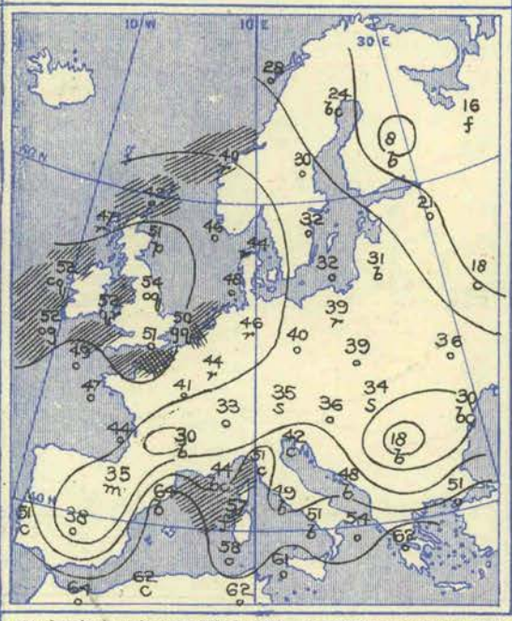
Temperature at 8 a.m.: highest, 67° at La Calle, 64° at Algiers, and not much below 60° over Italy, the Adriatic, and on the southern shores of the Mediterranean generally. Lowest, (1) 5° at Moscow; (2) 16° at Hernösand; (3) 23° at Paris and Munich, and 24° at Belfort. Lowest in our Islands, 38° at Bath and 39° in London. Rising during day to between 50° and 55° over the United Kingdom and on most of the French coasts, to above 60° in the south of Italy, to above 70° at most of the Algerian stations, and to 78° at Palermo. Scarcely exceeding 40° over central and eastern France, and only touching 34° at Besançon.

Wind light from the South-Westward in Scotland and strong from the same quarter in Ireland; moderate or fresh from the Westward over the major portion of England, the north of France and Germany; light or moderate from North-West or West in Scandinavia and Finland, but South-Westerly at Moscow and South-Easterly at Archangel. A feeble cyclonic circulation in the Mediterranean near Sardinia. Wind increasing to gale from Westward on our western and north-western coasts later. Not much change elsewhere, but South-Easterly gale setting in at Skudesnaes.

Barometer in morning highest, 30·5 ins. and upwards over France and the Bay of Biscay, and above 30·3 ins, in a long zone extending from the west of Ireland, across the southern half of England, over central Europe to the Black Sea. Lowest, 29·1 ins. and less in a shallow cyclonic system near the White Sea, and relatively low (30·1 ins. and less) in another shallow system lying between Sardinia and Italy. A new disturbance appearing off north of Scotland later. Russian low pressure system moving away eastward.

Tuesday, 19th November.

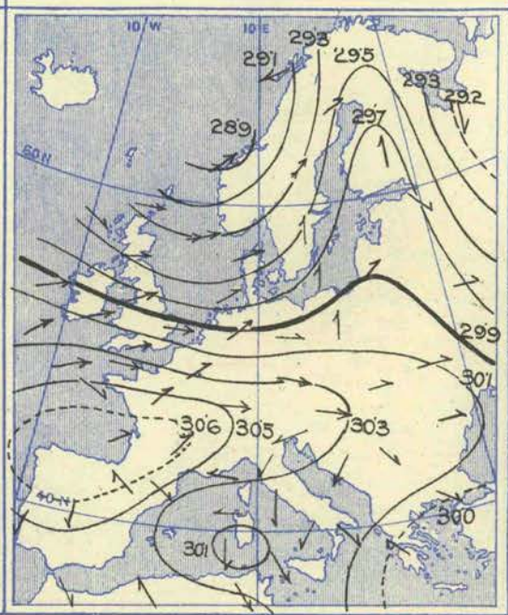
Temperature and Weather. 8 a.m.



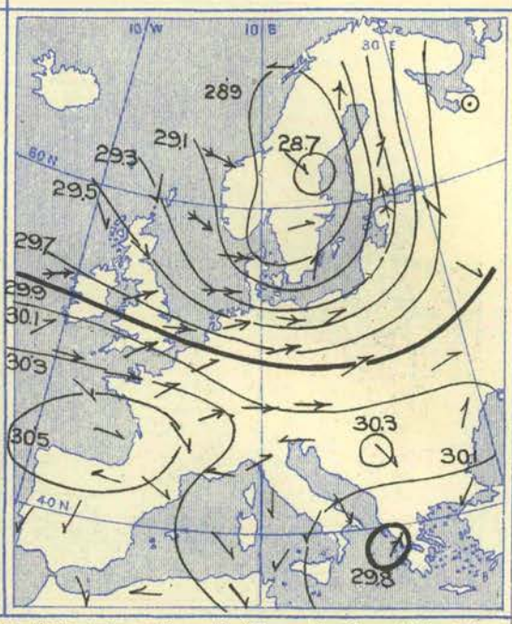
Weather in morning unsettled, with rain at times over the United Kingdom, Denmark, north Germany and Scandinavia. Dull over central Europe, with snow at Lemberg and Munich. Dull also at most of the Mediterranean stations, but fine and bright in many parts of Italy and France. Rain or snow falling over northern Europe later, and rain in our Islands, the Netherlands and Germany Conditions over southern Europe continuing dry.

Temperature at 8.0 a.m. : highest, a little above 60° at Barcelona, some of the southern Mediterranean stations and at Athens. Lowest, (1) 3° at Uleaborg, 8° at Kuopio ; (2) 18° at Hermanstadt ; (3) 23° at Limoges. Rising later to between 53° and 57° over Ireland and England, to 62° in the extreme south of France, 66° at Palermo, and to 70° at Algiers. Not exceeding 39° at Belfort and Munich. Succeeding night very warm over the greater part of our Islands.

Barometer and Wind. 8 a.m.



6 p.m.

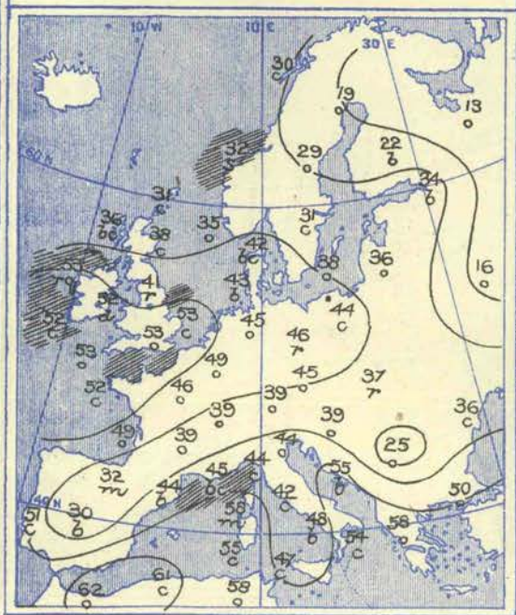


Wind in morning Westerly and South-Westerly over the north of France, the Channel, the whole of the United Kingdom, the North Sea and north Germany ; South-Westerly over Scandinavia. Strong or fresh in force generally, with a gale in many parts of our Islands and in Norway and Sweden. Light and variable in most southern regions. Light and moderate from between North and West over Russia. Wind veering to West and increasing to a gale in Denmark during day, and strong Southerly gale springing up in Finland. Veering to North-West in Scandinavia and decreasing in force. No material change elsewhere.

Barometer at 8 0 a.m. : 30·5 ins. to 30·6 ins. and upwards over France, the Bay of Biscay and the northern half of the Spanish Peninsula, and 30·3 ins. and upwards over Transylvania. Lowest, 28·9 ins. and less in a disturbance off the north-west of Norway, and 29·2 ins. and less in another system over north-eastern Russia. 30·1 ins. and less in a third disturbance in the neighbourhood of Sardinia. Northern cyclonic system moving eastwards later and increasing in depth. Not much change in other parts of our area generally, but disturbance in Mediterranean dispersing.

Wednesday, 20th November.

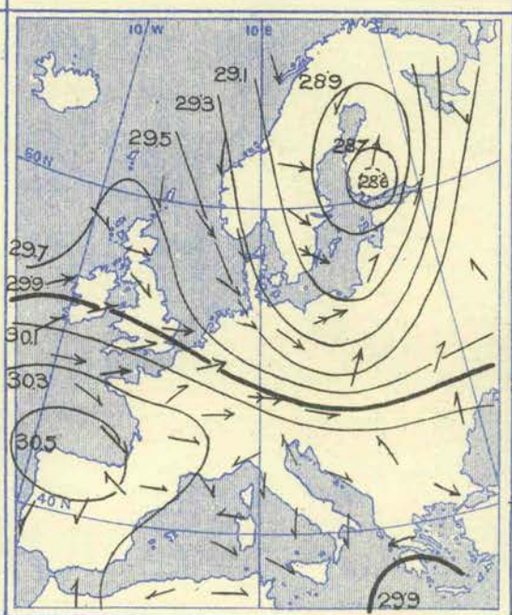
Temperature and Weather. 8 a.m.



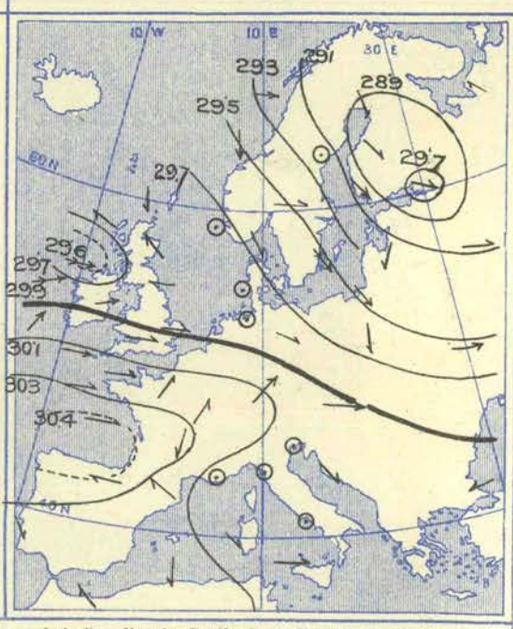
Weather in morning still cloudy or dull in almost all regions excepting Italy and the Riviera. Rain falling in the west and north of our Islands, as well as over Germany and at Lemberg, and snow at Christiansund. Rain later at nearly all our own stations, in the Netherlands and Germany. Snow in some parts of Scandinavia.

Temperature at 8.0 a.m.: highest, 62° at Oran, 61° at Algiers, 58° at Sanguinaires, and above 50° in most English and Irish districts. Lowest, 13° at Archangel, 16° at Moscow, 18° at Uleaborg ; (2) 31° at Sumburgh Head ; (3) 30° at Madrid, and 32° at Biarritz ; (4) 25° at Hermanstadt. Rising during day to between 54° and 57° in many parts of England and Ireland and on portions of the French coast, to 68° at Palermo and to 70° at Nemours. Thermometer not rising to more than 42° at Belfort, and remaining as low as 37° in the Shetlands.

Barometer and Wind. 8 a.m.



6 p.m.

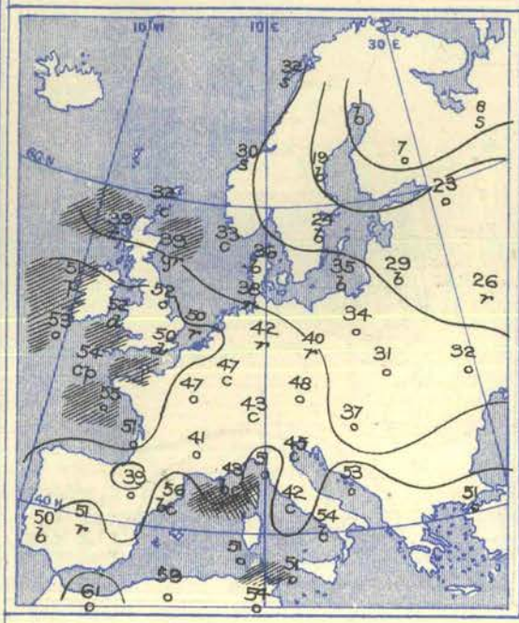


Wind North-Westerly, strong to a gale in Scandinavia, Southerly or South-Westerly and light over the greater part of Russia, and light from East or North-East in Lapland. Light from East at Malin Head, but fresh or strong from between South-West and West in other parts of Ireland and over England, as well as in the north of France, Germany, and central Europe generally. Light and variable over southern Europe. Wind shifting to South-East in Scotland later, and increasing to a gale from the Westward in north of Ireland. No material change elsewhere, but wind increasing somewhat from the North-Westward in Finland.

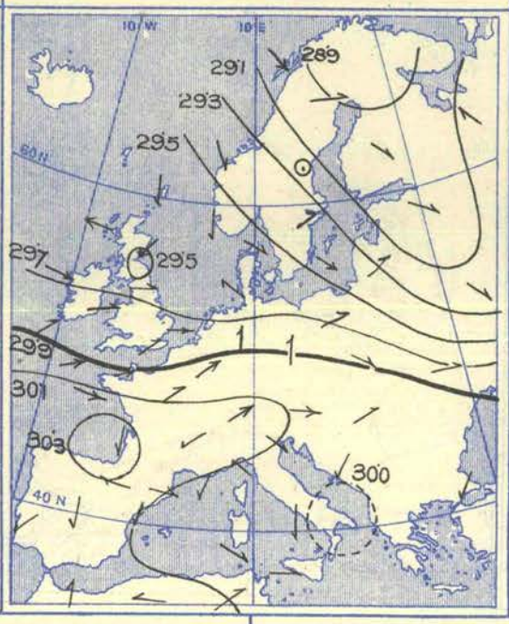
Barometer at 8.0 a.m.: highest, 30·5 ins. and upwards over the southern half of the Bay of Biscay and the north of Spain. Lowest, 28·6 ins. and less in a deep disturbance over Finland. Below 29·9 ins. in a shallow system between Greece and Crete. Finnish disturbance moving eastwards later, and southern anticyclone decreasing a little in height. A small disturbance off the north of Ireland, growing deeper and moving slowly eastward.

Thursday, 21st November.

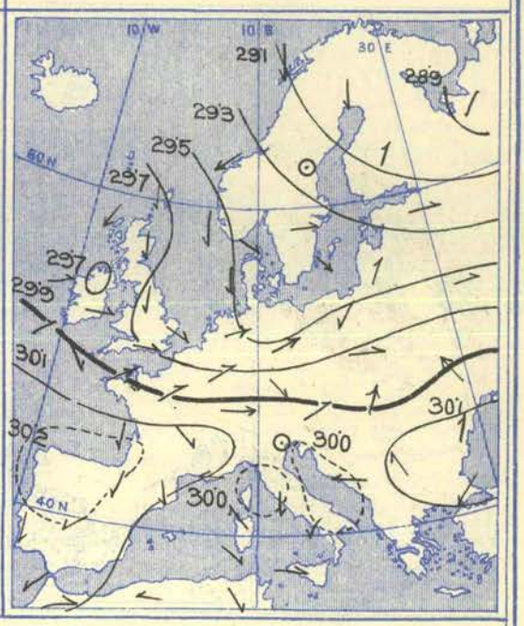
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in Sweden, in parts of the Riviera and at Rome, cloudy or dull in other regions. Rain falling in many British districts, in Denmark, Germany and central Russia, and snow in the west of Norway and at Archangel. Rain during day over the whole of the United Kingdom, the Netherlands, Germany and in parts of Austria-Hungary, and snow in the west of Norway.

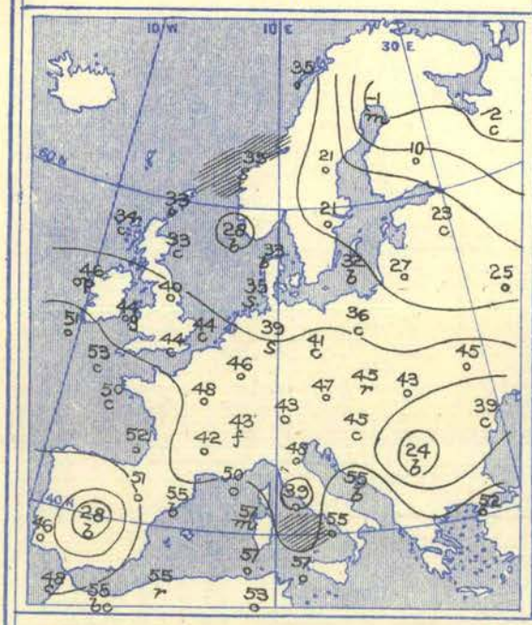
Temperature at 8 a.m. : highest, 60° or 61° in western Algeria and a little above 50° at most coast stations in southern Europe and over England and Ireland. Lowest, 1° at Haparanda and 10° or below at most of the Finnish stations and at Archangel, 32° in the Shetlands. Rising later to between 50° and 56° over Ireland, England and France, to 63° at Trieste, to 68° at Palermo and in some parts of Algeria. Temperature not rising to 40° in north Scotland.

Wind in morning North-Easterly in Scotland, Westerly or South-Westerly over Ireland, England, the north of France and at most stations in central Europe, North-Westerly to Westerly in Scandinavia and Finland, and South-Easterly at Archangel. Rather variable over southern Europe, but mainly North Easterly or Easterly. Subsequently shifting to the Northward over the northern parts of England and Ireland ; no important change occurring elsewhere.

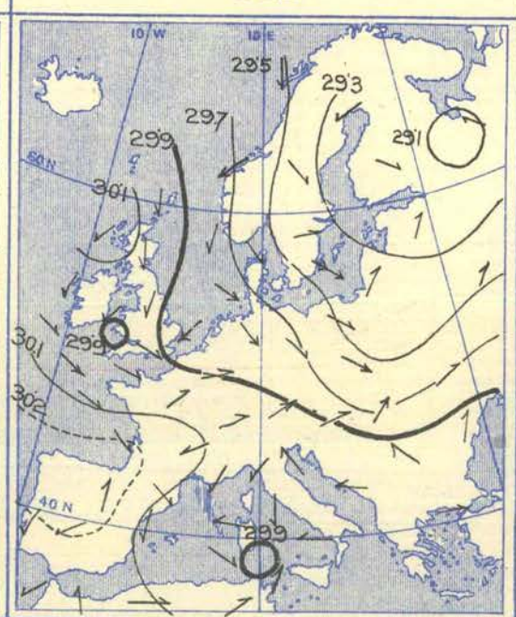
Barometer highest, 30·3 ins. and upwards in the south-west of France ; 30·1 ins. and upwards in an anticyclone covering the whole of the Bay of Biscay, France, Spain and Switzerland. Lowest, 28·9 ins. and less in a large cyclonic system with its centre over Lapland ; 29·5 ins. and less in a small secondary area over the east of Scotland. Main disturbances subsequently travelling eastwards across northern Russia ; secondary systems moving south-eastwards and partially dispersing.

Friday, 22nd November.

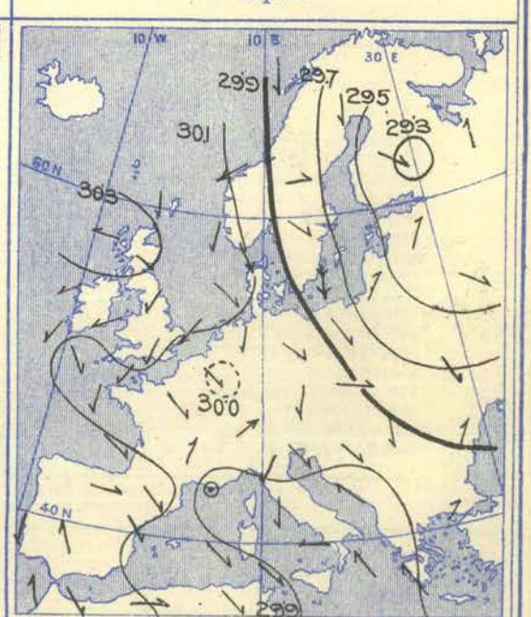
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in almost all parts of our area, but fine and bright in Algeria and at some Spanish stations. Rain falling in some parts of our Islands and in some central European districts. Rain falling later in many parts of France and the United Kingdom, as well as at some Austrian and German stations. Sky clearing in Scotland and north of Ireland.

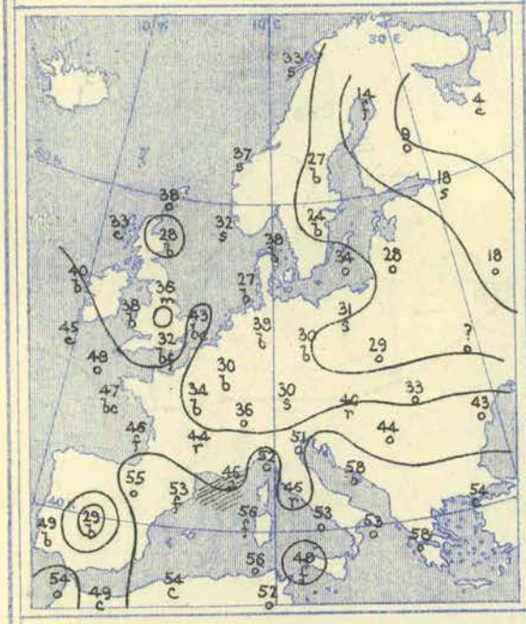
Temperature at 8 a.m. : highest, between 52° and 57° at most coast stations on the Mediterranean, and 52° at Constantinople, 53° at Scilly. Lowest, (1) −2° at Archangel, −1° at Uleaborg, 10° at Kuopio, 21° at Stockholm ; (2) 24° at Hermanstadt. Lowest in our Islands, 33° at Aberdeen and in the Shetlands. Rising later to 72° at Oran, 66° at Palermo and San Fernando, and nearly touching 60° in the Riviera. Not exceeding 45° at many of our own stations, and remaining below 40° in most localities in Scotland.

Wind in morning Northerly or North-Easterly in nearly all parts of the British Isles, and Northerly or North-Westerly in Scandinavia, with a gale at Wisby. Westerly, moderate in force, over the English Channel and central Europe ; a slight cyclonic circulation over Italy, the south of France and the neighbouring islands. Light North-Easterly airs over the Spanish Peninsula. North-Easterly wind spreading to English Channel coasts later, and wind in central Europe becoming more Northerly. Very little change elsewhere.

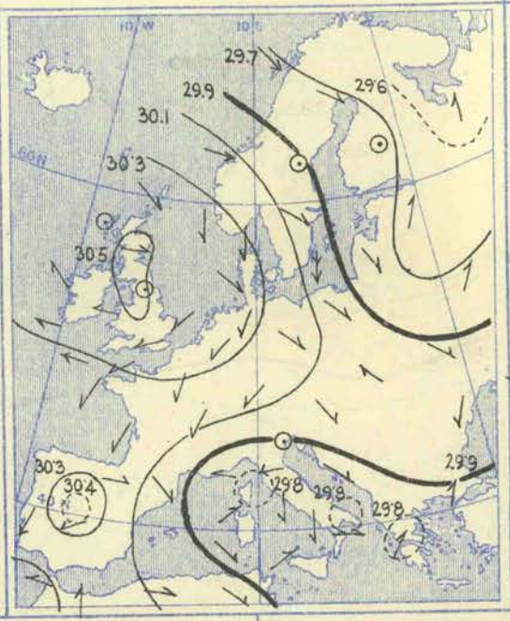
Barometer at 8 a.m. : highest, 30·20 ins. and upwards over the south-west of France and the north of Spain, but 30·1 ins. and upwards over the north and north-west of Scotland. Lowest, 29·1 ins. and less in a large system over northern Russia, and 29·9 ins. and less in two other smaller systems lying over Wales and between Sardinia and Sicily respectively. Northerly high pressure extending southwards later, and that in south giving way. Russian cyclonic system filling up decidedly, that over Wales moving southwards, and that in Mediterranean travelling eastwards.

Saturday, 23rd November.

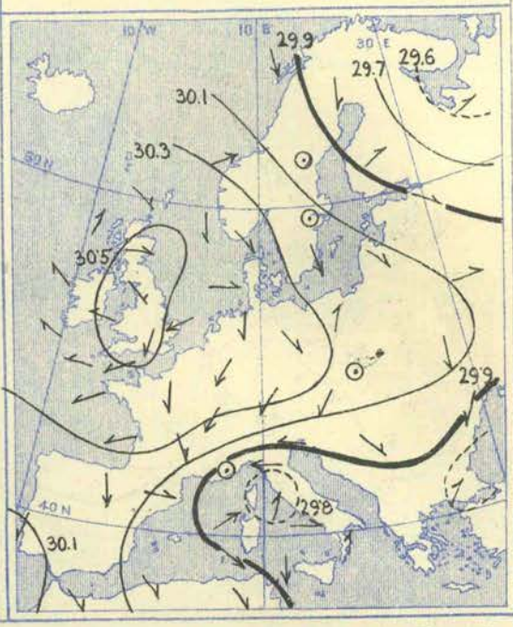
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fine over the British Islands, Denmark, and in parts of Sweden, but foggy in London. Dull in most other countries; rain falling at Lyons, Florence and Rome, as well as at Vienna, and snow in Norway, at St. Petersburg, and on the German Baltic coasts. Heavy rain later over northern Italy, and smaller amounts in other parts of that country, as well as at Bilbao, and in some German districts.

Temperature at 8 a.m.: highest, 58° at Patras and Lésina, and above 50° on the Mediterranean shores generally; 55° at Biarritz. Lowest, (1) 4° at Archangel, 8° at Helsingfors, 18° at Moscow; (2) 24° at Loughborough, 25° at Wick, and 28° at Aberdeen; (3) 29° at Madrid. Rising during day to about 50° at some of our south-west coast stations, to above 55° in the south of France, to 59° or 60° in most parts of Italy, and to 70° at Nemours. Maximum not exceeding 30° at Munich.

Wind in morning North-Westerly in Scandinavia, strong to a gale, and light from the Westward in north of Scotland. Fresh from the Eastward in our more southern districts, and moderate from the North-Eastward in most parts of France. Mainly from some Northerly point, and light, over central Europe. South-Westerly at Moscow and South-Easterly at Archangel. Light and variable over southern Europe and the Mediterranean. No great change during day, but gale subsiding over Scandinavia, and moderate cyclonic circulation appearing over Italy.

Barometer at 8 a.m.: highest, 30·4 ins. to 30·5 ins. and upwards over the greater part of our Islands and the North Sea, and 30·4 ins. in the centre of an anticyclone near Madrid. Lowest, 29·8 ins. to 29·6 ins. and less in a cyclonic system over the northern half of Russia and Lapland; 29·8 ins. and less in a small system near Leghorn, and below 29·9 ins. over Italy and south-eastern Europe. No material change during day, as a whole, but anticyclone over Spain dispersing.

GENERAL NOTES.

During the earlier half of the week an anticyclone was shown—at first over the south of England, France, and Germany, and subsequently moving to the south-west of France and the Bay of Biscay. During this time some large and deep cyclonic systems passed eastwards over the northern part of our area and smaller systems in a similar direction over the United Kingdom. Gales and strong winds from between South-west and North-west were consequently very prevalent over northern Europe, with rain or snow at times. Towards the close of the period the southern anticyclone gradually dispersed, while a fresh one travelled over our Islands from the northward. It resulted from this change that the wind shifted to the North-eastward or Northward over the United Kingdom and France, with a decided fall of temperature, drier and finally foggy weather. In most parts of northern Europe the wind shifted to North or North-west and became less strong in force. Over the Mediterranean and southern Europe generally pressure was comparatively rather low during the whole week, but definite depressions were almost entirely confined to the neighbourhood of Italy and Sardinia. These systems caused but little increase in the force of the wind, but produced rain from time to time, that experienced at the end of the week being heavy over northern Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	17·9	+10·1	36	+20	BRIGHTON	14·0	- 0·5	24	- 1
STRATHPEFFER SPA	13·2	+ 4·4	25	+ 8	WORTHING	15·1	?	26	?
EDINBURGH	7·8	- 1·7	14	- 3	BOGNOR	17·3*	?	29*	?
MORPETH	12·5	?	23	?	WATERGATE (Emsworth)	14·8	?	25	?
NEWCASTLE-ON-TYNE	6·4	?	12	?	WESTBOURNE (Emsworth)	15·0*	+ 2·0	25*	+ 3
OSWALDKIRK (Yorkshire)	?	?	?	?	VENTNOR HOSPITAL	18·7	+ 4·7	32	+ 9
YORK	10·7	+ 2·5	19	+ 5	BOURNEMOUTH	20·1	?	34	?
LOWESTOFT	12·6	?	22	?	SOUTHPORT	9·2	?	16	?
HOLLESLEY BAY	15·5	?	27	?	RHYL	16·2*	?	28*	?
SHEFFIELD	8·0	?	14	?	COLWYN BAY	?	?	?	?
WORKSOP	10·6	+ 0·9	19	+ 2	ABERDOVEY	12·0*	?	21*	?
THURCASTON (Leicestershire)	11·9	+ 1·3	21	+ 3	TENBY	15·4	+ 2·0	27	+ 4
MARGATE	?	?	?	?	NEWQUAY	19·6	+ 3·3	32	+ 5
BROADSTAIRS	13·1	?	22	?	TORQUAY	17·3	+ 3·5	28	+ 5
EASTBOURNE	15·8	+ 1·8	27	+ 4	CAHIR (Duneske)	14·6*	?	25*	?
					GUERNSEY	9·9*	- 3·3	16*	- 6

* The values at Rognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Sept. 7th, 1901	Clifton	68	43	63·5	48·0	55·4	- 2·4	94	0	1	0·07	- 0·71	—	—	—	—
" " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	52·7	?	57	?
" " " 14th, "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	28·4	?	32	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER S.W. ; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 48.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 30TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 284.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	24	48·2	37·7	43·0	3 above	25	+11	12	−10	2360	+372	690	+ 2
	1. SCOTLAND, EAST	54	15	47·0	34·3	40·7	1 above	14	− 1	31	+ 4	2501	+166	836	+71
	2. ENGLAND, N.E.	52	21	45·8	34·5	40·2	1 below	11	− 6	29	+ 8	2829	+261	627	+26
	3. ENGLAND, EAST	50	21	44·7	33·2	39·0	3 below	8	−12	33	+ 9	3104	+132	669	+11
	4. MIDLAND COUNTIES	50	15	43·5	30·2	36·9	4 below	4	−16	43	+18	3046	+138	738	+56
	5. ENGLAND, SOUTH	50	24	44·7	33·6	39·2	4 below	8	−19	32	+16	3282	+ 4	531	+57
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	27	48·5	39·4	43·9	2 above	7	−13	24	+ 8	2656	+146	564	+44
	7. ENGLAND, N.W.	50	21	45·8	35·7	40·8	2 below	11	−11	25	+ 9	2937	+177	529	+53
	8. ENGLAND, S.W.	52	19	45·5	32·9	39·3	4 below	10	−20	35	+24	3225	+153	462	+95
	9. IRELAND, NORTH	52	30	48·3	39·9	44·1	2 above	24	+ 2	6	− 9	2670	+ 14	426	−15
	10. IRELAND, SOUTH	52	29	48·4	38·5	43·5	1 below	25	− 6	10	− 2	3085	+ 44	366	+44
	—CHANNEL ISLANDS	52	32	49·5	40·1	44·9	3 below	28	−17	5	+ 2	3775	+131	165	+35

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 284.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	4 less	212	+ 2	38·8	− 6·5	6	0	13	0	1254	+157	30	+ 4
	1. SCOTLAND, EAST	2	1	6 less	179	− 1	25·1	− 4·0	12	+ 2	23	+ 5	1432	+166	34	+ 4
	2. ENGLAND, N.E.	2	0	5 less	152	−16	21·4	− 2·2	17	+ 8	31	+14	1506	+240	36	+ 6
	3. ENGLAND, EAST	4	2	4 less	142	−27	17·1	− 6·3	19	+ 4	33	+ 8	1766	+163	40	+ 4
	4. MIDLAND COUNTIES	1	0	6 less	139	−21	22·2	− 3·6	13	+ 4	23	+ 6	1455	+148	36	+ 3
	5. ENGLAND, SOUTH	2	1	6 less	130	−27	20·7	− 5·4	22	+ 9	38	+14	1811	+189	43	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	9 less	189	− 6	44·5	− 3·0	7	− 2	14	− 2	1501	+187	36	+ 5
	7. ENGLAND, N.W.	2	1	8 less	165	−11	26·5	− 5·8	13	+ 5	25	+10	1650	+285	39	+ 7
	8. ENGLAND, S.W.	1	0	10 less	151	−32	29·2	− 8·2	17	+ 5	29	+ 9	1687	+ 74	41	+ 2
	9. IRELAND, NORTH	5	2	6 less	208	+ 1	34·2	+ 1·2	9	− 2	16	− 5	1313	+ 82	31	+ 2
	10. IRELAND, SOUTH	1	1	9 less	171	−18	33·0	− 4·2	12	− 1	22	− 2	1441	+ 37	34	+ 1
	— CHANNEL ISLANDS	3	0	9 less	172	−11	25·9	− 4·2	14	− 1	23	− 2	1875	+ 36	46	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was fair and dry over our Islands as a whole, but slight falls of rain were frequent in the extreme north and north-west, and very slight falls were also experienced at times in most other districts—especially on our eastern coasts. Fog prevailed over Central England at the beginning of the week.

Temperature exceeded the mean in Scotland and in Ireland N., but was again below it in Ireland S. and over England; in the Midland Counties, England S. and S.W., the deficit was as much as 4°. The highest of the maxima were recorded, with few exceptions, on Saturday, when they reached 50° or 52° in most districts, 53° in Scotland N., and 54° in Scotland E. The maxima on the 24th were no higher than 28° at some stations in Central England. The lowest of the minima, which were registered during the earlier days of the week, ranged from 15° in Scotland E. and the Midland Counties to 29° or 30° in Ireland and to 32° in the Channel Islands.

Rainfall was less than the mean in all districts; over the greater part of the Kingdom the fall was scarcely appreciable.

Bright Sunshine exceeded the normal in England, and also in Scotland E. In all other parts of the Kingdom, except in Scotland N., where the mean was just equalled, the amount was deficient. The percentage of the possible duration ranged from 38 in England S. and 33 in England E. to 15 in Scotland N.

Barometer and Wind.—The distribution of pressure over the greater part of our Islands during this week was anticyclonic, the centre of the high pressure system at first lying over Central England, then moving slowly westwards to the West of Ireland and the adjacent parts of the Atlantic, and finally south-eastwards to the Bay of Biscay and France. The northern parts of the Kingdom were, however, affected by large and deep cyclonic systems, passing eastwards to the northward of Scotland and across Scandinavia, and occasionally by their secondaries, which moved in a more southerly track. The wind was consequently mainly from the Westward and North-Westward or Northward over our more northern districts; in force it was moderate or fresh as a whole, but in the north of Scotland it increased considerably at times, and on the nights of Wednesday and Friday blew with the strength of a gale. In the south and south-east the wind was at first North-Easterly, but as the week progressed it backed to North, and eventually to North-West or West.

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II.—DATA from which the SUMMARY on page 283 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	30	47·6	38·3	43·0	+ 1·7	23	10	7	0·53	− 0·45	*	*	*	*
	Stornoway	53	32	49·9	38·6	44·3	+ 3·5	30	10	6	0·81	− 0·44	5·4	− 2·1	11	− 4
	Wick	53	24	48·1	35·4	41·8	+ 1·5	17	28	5	0·35	− 0·04	*	*	*	*
	Lairg Ⓢ	49	25	47·4	34·8	41·1	+ 3·9	15	29	7	1·03	+ 0·18	*	*	*	*
	Glencarron Ⓢ	50	36	47·1	39·7	43·4	+ 4·3	19	6	6	2·63	+ 0·37	*	*	*	*
	Fort Augustus Ⓢ	52	24	48·2	36·0	42·1	+ 1·9	26	17	5	0·25	− 0·86	4·1	+ 0·8	8	+ 1
	Fort William Ⓢ	52	31	48·9	41·3	45·1	+ 3·8	25	2	7	0·77	− 1·22	3·7	− 1·0	7	− 2
1. SCOTLAND, E.	Nairn	53	24	48·4	35·3	41·9	+ 2·3	18	28	2	0·08	− 0·41	*	*	*	*
	Aberdeen	53	24	47·4	35·6	41·5	+ 1·3	15	26	4	0·09	− 0·63	12·0	+ 1·3	24	+ 4
	Braemar Ⓢ	49	15	44·3	30·9	37·6	+ 0·9	6	40	3	0·28	− 0·55	*	*	*	*
	Ochtertyre Ⓢ	54	27	48·1	35·6	41·9	+ 2·5	17	27	1	0·03	− 0·98	*	*	*	*
	Leith Ⓢ	52	24	48·4	35·9	42·2	+ 0·8	27	17	0	—	− 0·47	*	*	*	*
	Marchmont Ⓢ	50	22	45·4	32·3	38·9	+ 0·1	10	37	0	—	− 0·75	13·3	+ 3·3	26	+ 7
2. ENGLAND, N.E.	Alnwick Castle	52	24	47·8	34·0	40·9	+ 0·2	16	32	2	0·05	− 0·69	*	*	*	*
	Durham	52	24	46·7	35·3	41·0	+ 1·1	13	27	1	0·01	− 0·57	19·6	+ 8·8	37	+17
	Shields	51	28	46·6	34·3	40·5	− 1·0	13	31	0	—	− 0·53	*	*	*	*
	Scarborough Ⓜ	51	28	47·3	37·1	42·2	+ 0·4	22	14	2	0·03	− 0·60	17·0	?	32	?
	Spurn Head	48	35	45·6	37·1	41·4	− 0·9	10	20	2	0·05	− 0·44	*	*	*	*
	Fulbeck (Lincolnshire)	48	21	40·7	29·4	35·1	− 4·7	0	48	2	0·05	− 0·40	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	47	21	44·0	32·9	38·5	− 1·9	6	34	4	0·12	− 0·47	14·4	+ 3·2	26	+ 6
	Yarmouth	47	33	45·3	36·1	40·7	− 1·3	9	23	6	0·42	− 0·20	*	*	*	*
	Geldeston	50	27	46·6	33·9	40·3	− 1·6	13	32	6	0·26	− 0·30	13·7	+ 0·9	24	+ 1
	Cambridge	48	20	44·8	31·0	37·9	− 3·2	8	40	2	0·02	− 0·41	16·3	+ 4·3	29	+ 8
	Felixstowe	48	33	44·0	34·4	39·2	− 3·1	6	28	4	0·17	?	27·1†	?†	48†	? †
	Rothamsted	46	24	43·6	31·0	37·3	− 3·6	4	40	2	0·02	− 0·58	19·7	+ 7·8	35	+14
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	20	43·7	32·9	38·3	− 2·3	5	33	0	—	− 0·47	*	*	*	*
	Loughborough	48	17	41·1	27·6	34·4	− 6·8	0	53	2	0·02	− 0·51	*	*	*	*
	Colly Weston (Stamford)	48	22	44·7	29·3	37·0	− 2·9	8	46	1	0·01	?	*	*	*	*
	Cheadle Ⓜ	46	26	43·6	33·9	38·8	− 1·4	4	30	1	0·01	− 0·69	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	48	23	43·9	33·1	38·5	− 2·9	5	32	0	—	− 0·55	5·0	?	9	?
	Churchstoke Ⓜ	47	20	43·1	30·0	36·6	− 4·2	3	43	3	0·04	− 0·71	11·7	+ 1·2	21	+ 3
	Hereford (Belmont) Ⓜ	49	15	42·5	26·7	34·6	− 7·1	1	54	0	—	− 0·57	*	*	*	*
	Cirencester	47	20	44·6	29·4	37·0	− 3·8	7	46	1	0·01	− 0·66	20·0	+ 9·0	36	+17
	Oxford	48	21	44·7	29·0	36·9	− 5·1	8	48	1	0·04	− 0·50	17·4	+ 5·8	31	+11
5. ENGLAND, S.	London	47	24	43·6	30·6	37·1	5·4	4	41	2	0.03	− 0·60	5·3†	− 1·4†	9†	− 3†
	Swarraton (Alresford) Ⓜ	46	24	42·8	29·5	36·2	− 5·0	2	45	1	0·05	− 0·68	*	*	*	*
	Dungeness	47	31	45·9	33·9	39·9	− 4·1	11	31	4	0·15	− 0·41	17·0	?	29	?
	Hastings (St. Leonards)	47	34	45·1	35·9	40·5	− 3·1	9	24	2	0·04	− 0·69	25·7	+11·0	44	+18
	Southampton	49	29	45·9	33·3	39·6	− 3·8	11	33	1	0·02	− 0·70	22·9	+10·4	39	+17
	Portland Bill	50	35	46·9	37·9	42·4	− 2·3	20	11	0	—	?	*	*	*	*
	Shaftesbury Ⓜ	46	30	42·6	34·2	38·4	− 2·0	2	28	3	0·03	− 0·75	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	38	49·4	41·4	45·4	+ 3·0	26	2	7	1·04	− 1·00	*	*	*	*
	Glasgow	50	27	47·4	37·5	42·5	+ 1·8	22	13	2	0·10	− 0·81	4·5	− 0·5	9	− 1
	Glenlee Ⓢ															
	Douglas (Isle of Man)	50	30	48·6	39·2	43·9	+ 0·4	25	8	4	0·10	− 0·97	10·1	− 1·9	19	− 3
7. ENGLAND, N.W.	Newton Reigny	49	21	44·7	30·3	37·5	− 1·8	8	43	2	0·02	?	14·0	?	26	?
	Stonyhurst	47	25	44·0	33·8	38·9	− 2·0	6	30	2	0·13	− 0·93	16·0	+ 7·7	30	+15
	Blackpool Ⓜ	49	27	46·0	35·7	40·9	− 1·1	11	25	1	0·01	− 0·75	11·9	+ 3·7	22	+ 7
	Manchester (Prestwich)	48	25	43·9	32·9	38·4	− 2·7	5	33	1	0·02	− 0·80	8·6	?	16	?
	Liverpool Obsy. (Bidston)	48	30	45·6	37·1	41·4	− 1·1	10	20	1	0·01	− 0·61	12·5	?	23	?
	Chester (Hawarden Bridge)	49	26	46·1	33·7	39·9	− 3·1	11	32	0	—	?	*	*	*	*
	Llandudno Ⓜ	50	32	48·0	41·1	44·6	+ 0·2	22	3	4	0·12	− 0·63	15·1	+ 4·9	27	+ 9
	Holyhead	50	33	48·0	40.9	44·5	− 0·7	22	3	2	0·05	− 0·87	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	19	43·4	27·7	35·6	− 5·8	4	51	4	0·06	− 1·12	*	*	*	*
	Pembroke	51	34	48·6	39·6	44·1	− 1·9	25	7	1	0·01	− 0·91	17·9	+ 5·3	32	+10
	Clifton	48	22	43·5	31·1	37·3	− 5·0	4	39	1	0·01	− 0·76	*	*	*	*
	Bath	48	21	43·1	27·3	35·2	− 7·4	3	52	0	—	?	6·3	?	11	?
	Arlington (N. Devon)	48	26	45·1	32·6	38·9	− 3·6	9	35	0	—	− 1·38	*	*	*	*
	Cullompton Ⓜ	52	24	45·9	29·8	37·9	− 4·0	11	46	2	0·02	− 0·84	18·4	+ 7·7	32	+14
	Falmouth	51	34	47·2	39·2	43·2	− 3·3	20	8	1	0·02	− 1·22	18·3	+ 3·6	31	+ 6
	Plymouth	51	32	47·5	36·1	41·8	− 3·5	15	25	0	—	− 0·87	16·4	+ 3·2	28	+ 6
9. IRELAND, N.	Malin Head	50	34	48·3	42·9	45·6	+ 2·0	25	0	4	0·17	?	*	*	*	*
	Edenfel (Omagh)	50	30	47·1	37·4	42·3	+ 2·3	21	13	5	0·20	− 0·64	*	*	*	*
	Blacksod Point	52	36	49·7	41·4	45·6	+ 1·0	28	2	6	0·73	?	*	*	*	*
	Markree Castle	51	31	47·9	37·7	42·8	+ 1·2	24	12	5	0·18	− 0·76	5·6	− 5·2	10	−10
	Armagh	48	33	47·6	39·1	43·4	+ 2·2	22	8	6	0·07	− 0·56	11·6	+ 0·3	21	+ 1
	Donaghadee	52	37	49·4	40·7	45·1	+ 2·0	27	4	1	0·02	− 0·68	*	*	*	*
10. IRELAND, S.	Dublin	50	35	48·5	40·2	44·4	+ 0·5	24	5	0	—	− 0·58	14·1	− 0·4	26	− 1
	Parsonstown	50	29	47·6	35·3	41·5	− 0·2	16	28	1	0·01	− 0·68	11·3	− 1·5	21	− 2
	Kilkenny	52	34	48·6	37·4	43·0	+ 0·3	26	13	0	—	− 0·70	*	*	*	*
	Roche's Point	51	37	49·3	40·6	45·0	− 0·8	27	4	0	—	− 1·15	*	*	*	*
	Valencia	52	34	49·4	40·9	45·2	− 1·4	27	3	4	0·39	− 0·96	7·4	− 5·6	13	−10
	Killarney	?	31	?	37·6	?	?	?	?	1	0·03	− 1·52	*	*	*	*
	Foynes	50	31	46·9	37·3	42·1	− 1·6	20	13	3	0·14	− 0·86	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	39	50·6	41·1	45·9	− 2·8	31	3	2	0·03	− 0·87	16·2	?	27	?
	Jersey	52	32	48·4	39·1	43·8	− 2·9	25	8	4	0·05	− 0·88	19·5	+ 3·7	33	+ 7

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

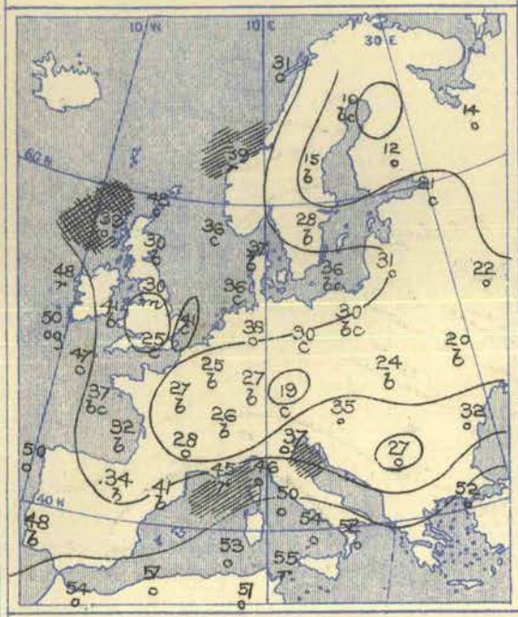
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

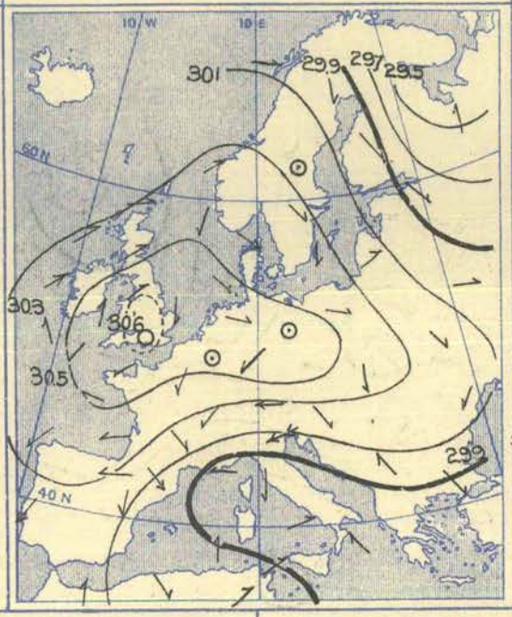
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 24th November.

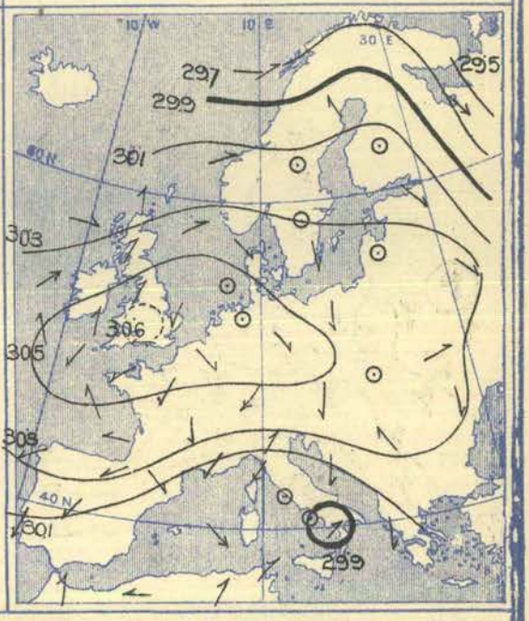
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain, France, most parts of the United Kingdom and in Sweden, cloudy or dull in most other regions, with rain over northern Italy and at Nice as well as at Palermo. Rain also falling at Christiansund. Foggy in central England. Heavy rain later in the extreme north of Norway, a rather considerable fall at Blacksod Point and large amounts at some stations in the Riviera.

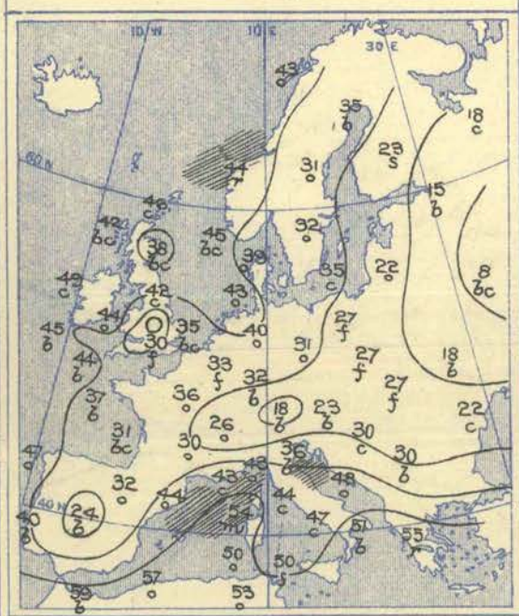
Temperature fallen briskly in Great Britain, France and the central countries. Morning readings highest, 50° to 55° on the Italian and Algerian coasts, and 50° in the south of Ireland. Lowest, (1) 10° at Haparanda, 14° at Archangel, 21° at St. Petersburg; (2) 20° at Kief, 24° at Lemberg; (3) 23° at Bath, 24° at Loughborough and Oxford, 25° in London; below 32° in most parts of France. Maxima below 50° over the United Kingdom as a whole during day and not exceeding 28° at Loughborough. Thermometer rising to 60° or above over southern Italy and to 68° at Nemours.

Wind in morning fresh from South-South-West on our north-west coasts and moderate from the Westward in Norway, but drawing into North-West and North over Sweden and Russia. Light and variable or Easterly over England and North-Easterly in West of France. Cyclonic circulation around Gulfs of Lion and Genoa, the Easterly current over northern Italy being strong. Latter wind decreasing somewhat in force during day, but no important change elsewhere.

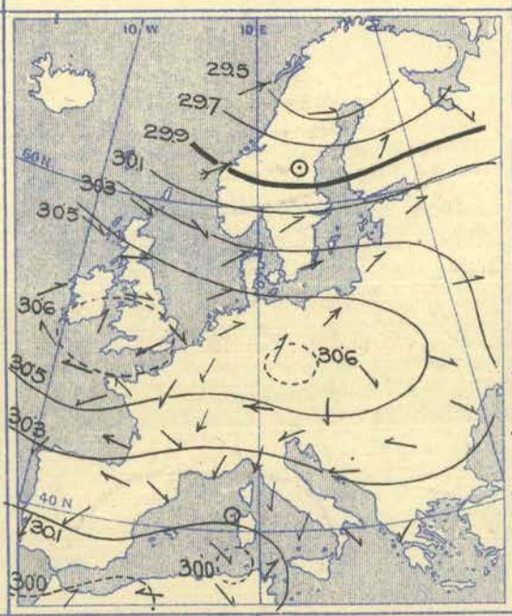
Barometer at 8 a.m.: highest, 30·4 ins. to 30·6 ins. and upwards in a large anticyclone covering the United Kingdom, the North Sea, Denmark, the Netherlands, Germany, the greater part of France and the Bay of Biscay. Lowest, 29·5 ins. over the White Sea and 29·9 ins. and less over Turkey, Italy and the neighbouring parts of the Ocean. Anticyclone extending Northwards and Eastwards later, and gradients round southern low pressure area becoming less steep. Barometer falling quickly in north of Norway and another disturbance approaching that region from westward.

Monday, 25th November.

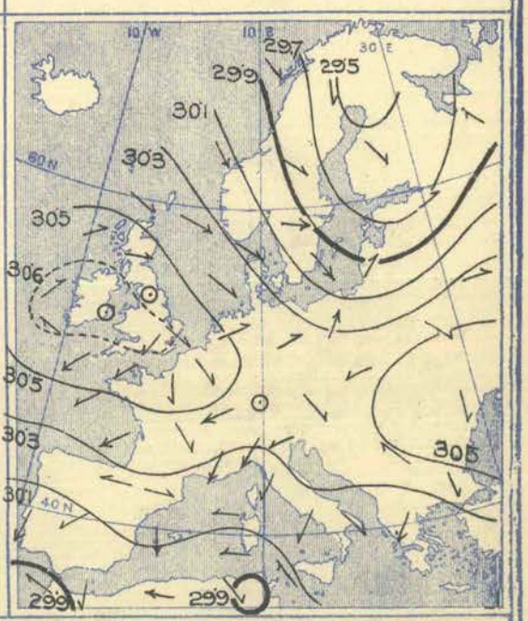
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull as a whole, but fine in some parts of England and Ireland as well as at some French and Spanish stations. Fog prevalent over central England, and also in the Netherlands and Germany; snow falling at Kuopio and rain at Christiansund, Turin, Athens and Oran. Slight rain later at some of our south-eastern stations and the north-east of France, and a more considerable fall taking place at Cagliari.

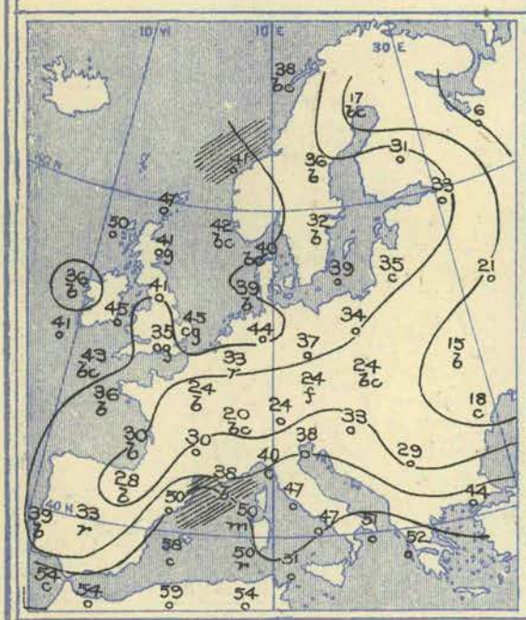
Temperature risen decidedly in the north of our Islands and in Scandinavia. Readings at 8 a.m.: highest, 59° at Nemours and above 50° in Greece and on the southern shores of the Mediterranean generally. Lowest, (1) 8° at Moscow, 15° at St. Petersburg and 18° at Archangel; (2) 18° to 22° over central England; (3) 18° at Munich, 23° at Vienna; (4) 24° at Madrid. Much below the freezing point over central Europe generally. Rising later to 52° at Valencia and Donaghadee, to 66° at Palermo and to 70° at Sfax. Not exceeding 36° at Loughborough, 33° at Besançon, and 32° at Vienna and Cracow.

Wind in morning West-South-Westerly and strong to a gale over Scandinavia and light or moderate from the same quarter over northern Russia; light from West on our own northern coasts and from East or North-East in the south and over France. Light and rather variable over central Europe; Easterly or North-Easterly and strong in places over Italy and the Riviera, North-Westerly in Sardinia and South-Westerly in Sicily. Wind veering to North-West and continuing strong over Scandinavia later, and blowing strongly from South-West on the coast of Prussia. Not much change elsewhere, but wind shifting to East at Cagliari and Palermo.

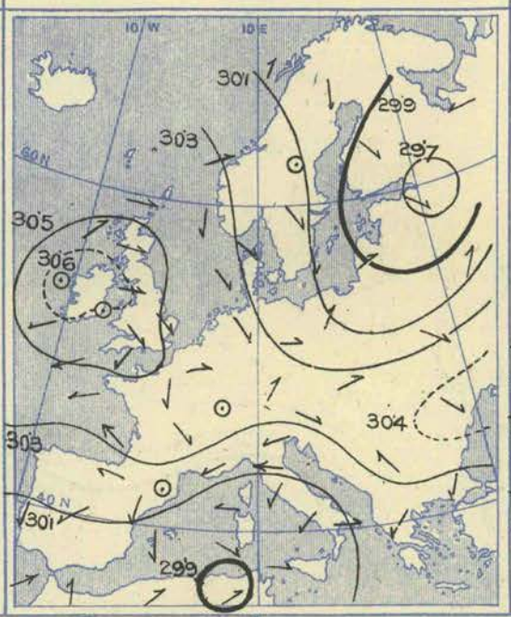
Barometer at 8 a.m.: highest, 30·4 ins. to 30·6 ins. and upwards in a very large anticyclone embracing the British Isles, the North Sea, Denmark, the whole of central Europe, with the northern half of France and Bay of Biscay. Lowest, 29·5 ins. and less in the extreme north of Scandinavia, and 30·0 ins. and less over Sardinia and Western Algeria. Anticyclone extending eastwards to southern Russia later; low pressure in extreme north moving eastwards, and the system near Sardinia travelling southwards to Tunis.

Tuesday, 26th November.

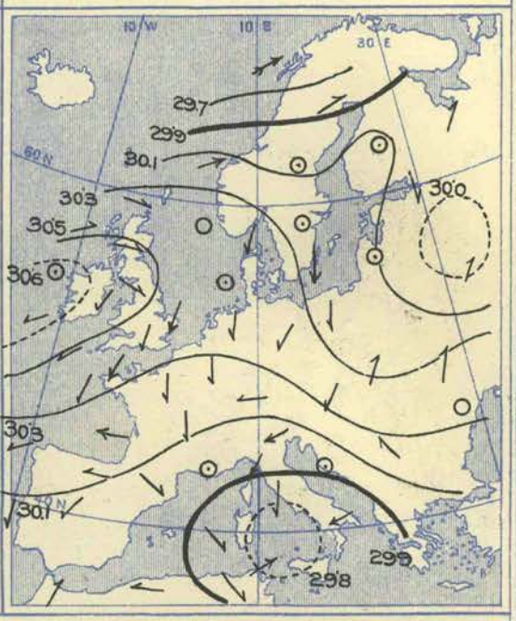
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over Europe as a whole, but fine and bright at many of the French and Scandinavian stations. Rain falling at Cape Gris Nez and Brussels, as well as at Madrid and Cagliari, snow at Breslau, and fog prevailing at Leith and in parts of Germany. Rain later in Norway, north Scotland, and south-east of England, and larger amounts in southern Italy and at Madrid.

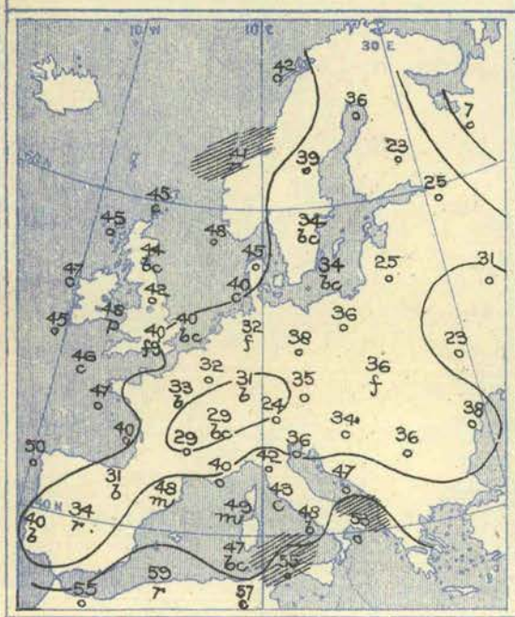
Temperature at 8 a.m.: highest, 59° at Algiers, 58° at Palma, and above 50° at most of Mediterranean stations; 50° at Stornoway. Lowest, (1) 6° at Archangel, 17° at Haparanda; (2) 12° at Nicolaieff, 13° at Kharkov; (3) 24° at Paris and 20° at Belfort. Below 32° in most parts of France, central Europe and Russia. Rising later to 50° or 51° at some of our outlying stations, to 59° on the south coast of France, and to between 66° and 70° in Algeria. Not exceeding 32° at many stations in central Europe.

Wind in morning light and anticyclonic in our Islands and their neighbourhood, and also over southern Russia. Three separate cyclonic circulations elsewhere—one over northern Russia and Finland, another over the Mediterranean and Italy, and the third over the south of Spain. Wind light generally, but Easterly breeze strong in northern Italy. Wind backing to South-West and increasing to gale in west of Norway by evening and blowing freshly from North in east of England. Increasing from East-North-East at Brindisi, and from South-West at Palermo, but strong breeze in northern Italy subsiding.

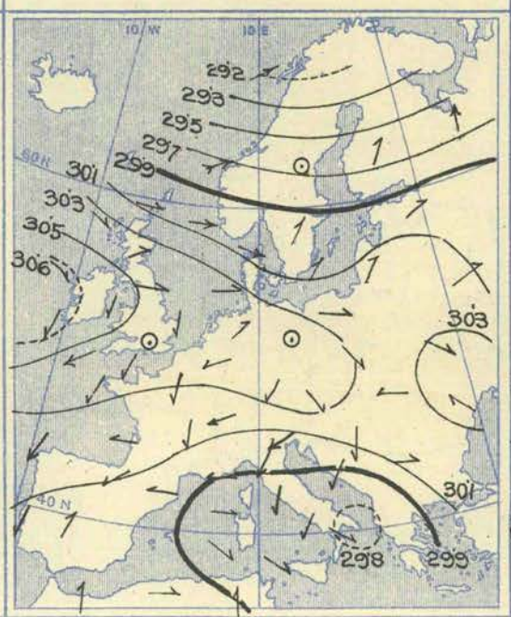
Barometer at 8 a.m.: 30·6 ins. in the centre of an anticyclone lying over Ireland, and 30·3 ins. and more in a band embracing the United Kingdom, France, the south-west of Norway, the North Sea, the south-west of Germany, the greater part of Austria-Hungary, the south of Russia, and the Black Sea. Lowest, 29·7 ins. in a shallow cyclonic system in north Russia, and 29·9 ins. and less in two other similar systems lying over eastern Algeria and the south of Spain. Russian disturbance moving south-eastwards during day, and that in Algeria north-eastwards. Barometer falling very quickly in Norway.

Wednesday, 27th November.

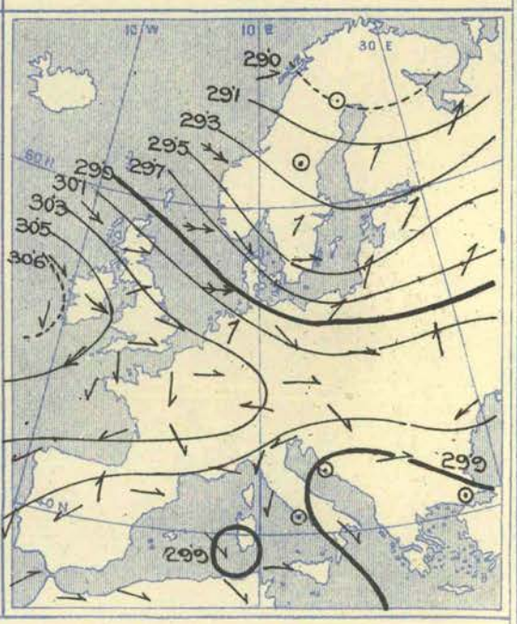
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in almost all places, but fine and bright at some of our own and the French stations; rain falling at Madrid and in the west of Norway. Rain later in many parts of our Islands, Scandinavia, Germany, and snow at a few stations in northern Russia. Rain falling in western Algeria.

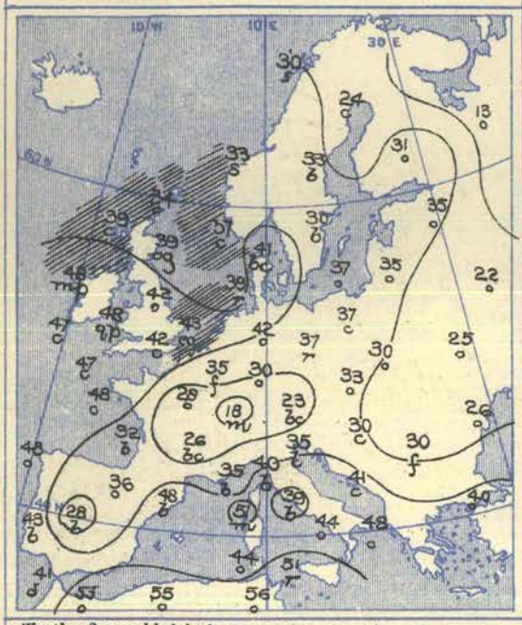
Temperature risen rapidly in north of Sweden, and to a less extent in most other regions. Morning readings highest, 59° to 54° in Algeria, 55° at Palermo, and 53° at Brindisi. Lowest, (1) 7° at Archangel, 23° at Kuopio; (2) 21° at Kharkov, 23° at Kiev; (3) 24° at Munich. Rising during day to 50° at some of our western and south-western coast stations and in the south of France, to 61° at Palermo and Cagliari, and to 68° at Tunis. Maxima not much exceeding 32° in most parts of central Europe, and remaining below that point in north of Scandinavia.

Wind at 8 a.m.: Westerly and strong to a gale in force over northern Europe; North-Westerly and light over our northern and eastern coasts and the North Sea; and North-Easterly or Northerly over France and our south-western districts; fresh or strong from East or North-East over Italy, the Riviera and the neighbouring gulfs, but North-Westerly at Cagliari and Palermo. North-Westerly gale setting in in Scotland and Denmark by evening, and wind increasing in force from South-West in the Baltic. Easterly wind decreasing in force over southern Europe.

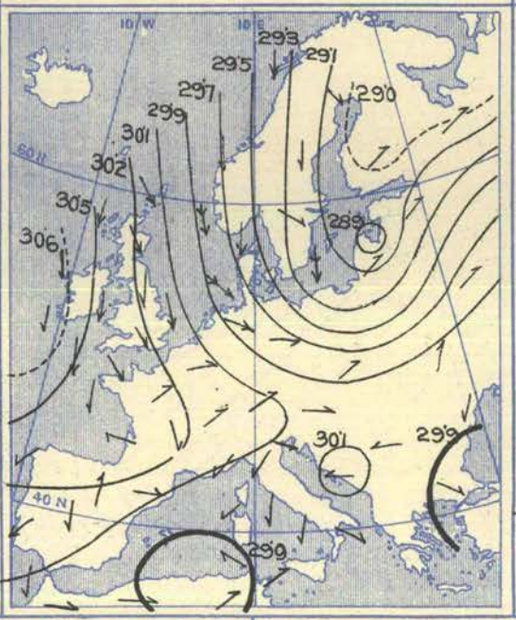
Barometer at 8 a.m.: highest, 30·6 ins. and more in an anticyclone over Ireland, and 30·3 ins. and upwards in a large zone covering the whole of our Islands and the north of France, and stretching Eastwards to the southern parts of Russia and the Black Sea. Lowest, 29·2 ins. and less in Finland, and 29·8 ins. and less over the south-east of Italy and the adjoining part of the Adriatic. No material change during day, but barometer falling somewhat in most places.

Thursday, 28th November.

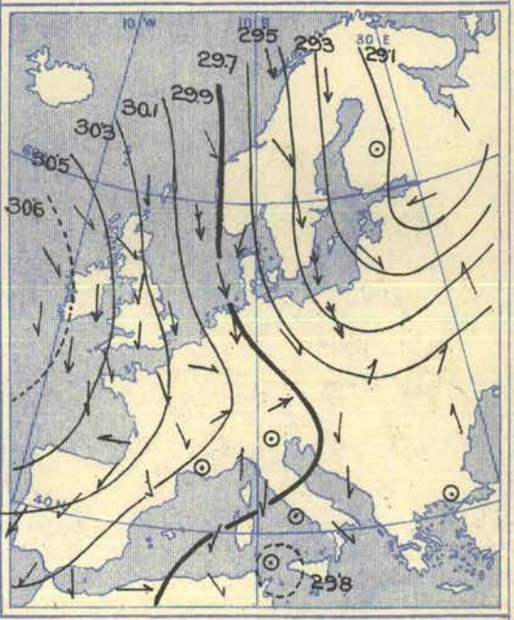
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright in many parts of southern Europe, but rainy at Palermo and at some Algerian stations. Cloudy or dull in most other regions, with rain or snow in Germany and showers in some parts of England. Rain falling later at several of our own northern and eastern stations and also in Germany; snow reported over northern Europe.

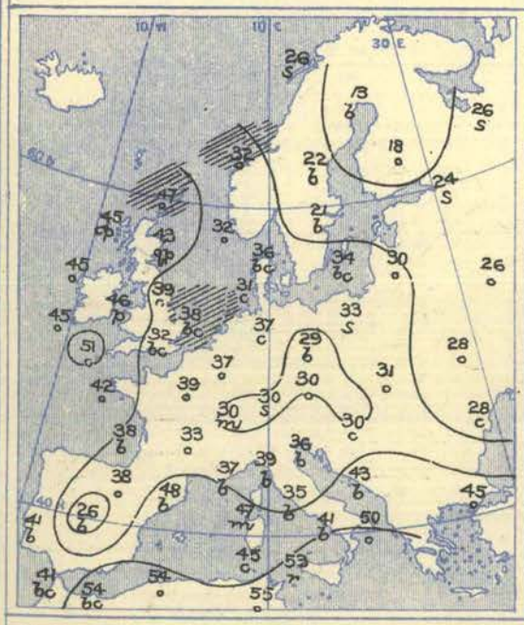
Temperature fallen in most parts of Europe—quickly in north of Scandinavia. 8 a.m. readings: highest, 55° or 56° on the Algerian coast. Lowest, (1) 13° at Archangel; (2) 14° at Kharkov; (3) 18° at Belfort, 23° at Munich; (4) 28° at Madrid. Below 32° in most parts of northern, central and eastern Europe and below 40° in northern Italy and in the Riviera; only 35° at Nice. Rising later to 50° at some of our south-west coast stations and exceeding that point in the north-west of France as well as in many portions of southern Europe. Frost occurring at night over the central and south-eastern parts of England.

Wind in morning Northerly and strong to a gale over Scandinavia and strong from the North-Westward on our more northern coasts; strong from the Westward or South-Westward over Germany and South-Westerly in Russia and Finland. Light to fresh from the Northward over the southern half of our Islands and the north of France and moderate from North-East or North over Italy, Spain, and the south of France. Light from North-East on northern shores of the Black Sea and West-North-Westerly at Constantinople. No important change occurring during day.

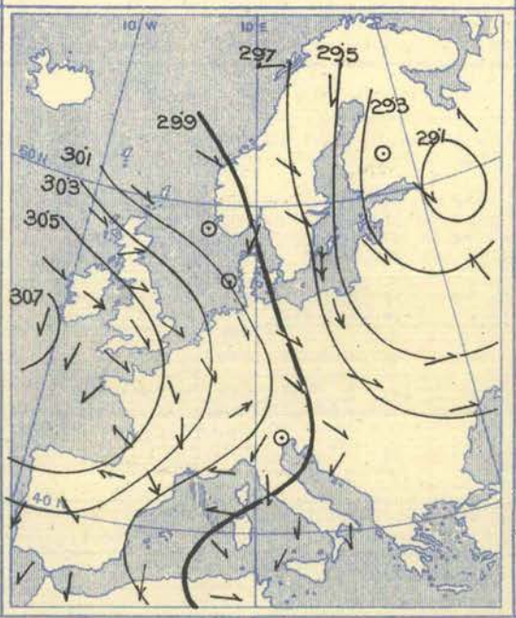
Barometer at 8 a.m.: highest, 30·6 ins. and more over the West of Ireland and Atlantic, and 30·3 ins. and upwards over nearly the whole of our Islands and France. Lowest, 28·9 ins. in a deep cyclonic disturbance near Riga and below 29·1 ins. over the Gulf of Bothnia, the Baltic Provinces, Finland, and the White Sea. Below 29·9 ins. in two shallow systems over Algeria and Tunis and south-eastern Turkey. No material change occurring later, but cyclonic systems over northern Europe partially filling up.

Friday, 29th November.

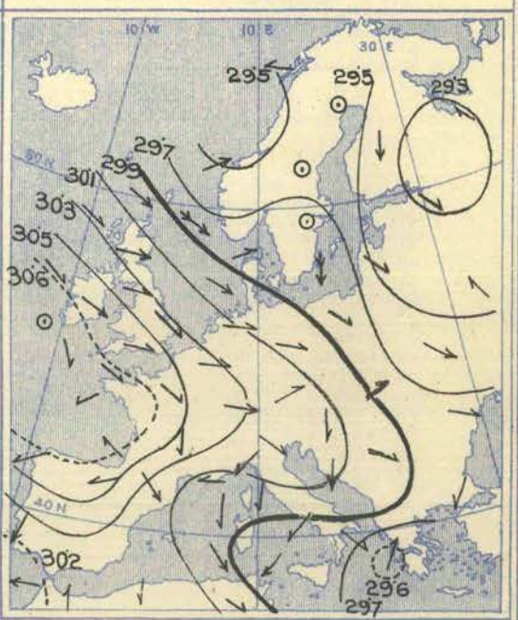
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in most parts of Spain, Italy and the Riviera, as well as in Sweden and the south-eastern half of England; cloudy or dull elsewhere, with showers at some of our own stations, rain at Palermo and La Calle, and snow at Bodö, Münster, Munich, in parts of Austria-Hungary and at St. Petersburg and Archangel. Slight rain later at many of our northern stations and rain or snow in north Germany, the Netherlands and Denmark.

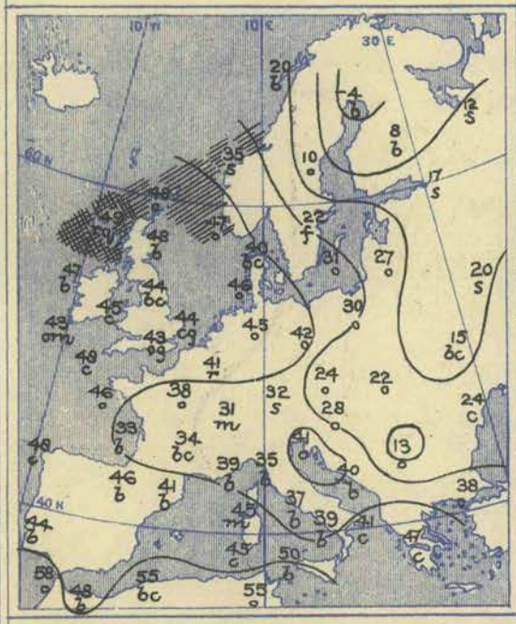
Temperature at 8 a.m.: highest, 57° at Sfax and 54° in western Algeria, 51° at Scilly. Lowest, (1) 13° at Haparanda, 18° at Kuopio, and below the freezing point over northern and central Europe generally; (2) 26° at Madrid; (3) 30° at Loughborough; (4) 34° at Pesaro. Rising to about 50° at many of our own stations during day, to 52° at Nice and to 70° at Tunis. Remaining below 32° over northern and in some parts of central Europe, and only rising to 44° at Pesaro and to 48° at Florence.

Wind in morning mainly North-Westerly, light or moderate, over the United Kingdom, the North Sea, Scandinavia and the greater part of France, Germany and Austria; South-Easterly and light over eastern and north-eastern Russia. Light and moderate breezes between East and North over Italy, the south of France and the Spanish Peninsula, and Westerly in Tunis. Wind backing later and increasing greatly in force in the west of Norway, and blowing a gale from North at Wisby and from North-West at Skudesnaes. Very little change elsewhere.

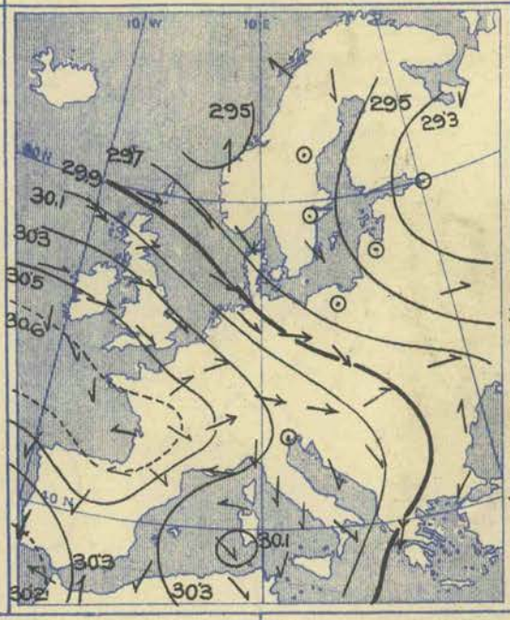
Barometer at 8 a.m.: highest, 30·7 ins. at Valencia Island and above 30·3 ins. in an anticyclone embracing the whole of the United Kingdom and nearly the whole of France. Lowest, 29·1 ins. and less in a disturbance over northern Russia, and 29·8 in another system over the south of Italy and its neighbourhood. Northern disturbance moving very little during day, and another cyclonic system approaching Norway from the westward. Italian disturbance apparently moving eastwards to Greece later and growing deeper.

Saturday, 30th November.

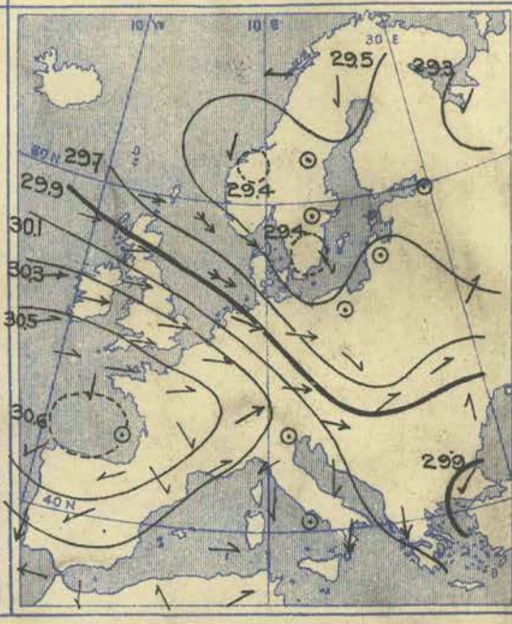
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright in most parts of southern Europe, but cloudy or dull elsewhere, with snow over northern and central Russia and in the west of Norway and also at Breslau and Vienna; rain falling at Athens and Brussels. Raining during day in the north of our Islands, the Netherlands, Germany, and parts of Austria-Hungary, and snow at some Scandinavian stations.

Temperature at 8 a.m.: highest, 58° at San Fernando and 55° at Algiers and Tunis. Lowest, (1) −4° at Haparanda, +8° at Kuopio, 10° at Hernösand; (2) 13° at Hermanstadt. Much below freezing point over Sweden, Russia, Poland and Transylvania, and not many degrees above it in northern Italy. Rising later to 53° at many of our northern stations, to 61° at Cagliari, and to 72° at Nemours. Remaining below 32° over northern Europe.

Wind in morning North-Westerly over the United Kingdom, strong to a gale in extreme North; North-Westerly, strong to a gale, on the eastern shores of the North Sea; moderate from the Westward over central and eastern Europe; Northerly in Greece and south-eastern Europe, with a gale at Athens; Easterly and strong in Portugal and South-West of Spain. Light cyclonic circulation in central parts of Mediterranean. No material change later during day over Europe as a whole, but wind veering to North-North-East at Christiansund.

Barometer at 8 a.m.: highest, 30·6 ins. and upwards to the southward of Ireland, over the Bay of Biscay and central and western France. Lowest, 29·3 ins. and less in a disturbance over north Russia; 29·5 ins. and less in another system off the west of Norway; 29·8 ins. and less over south-eastern Europe, and 30·1 ins. and less in two other disturbances—one over the south of Sardinia, the other off the south-west of Spain. No very decided change later, but a cyclonic disturbance advancing from westward over Norway.

GENERAL NOTES.

During the greater part of the week an anticyclone lay over all the more southern and south-western parts of our Islands, whence a long zone of relatively high pressure stretched eastwards or east-south-eastwards across central Europe to southern Russia. Cyclonic disturbances—mostly large and deep—consequently passed eastwards over northern Europe, and, with their secondaries, frequently affected our more northern coasts. To the southward of the high pressure band, *i.e.*, over the Mediterranean and Italy, other disturbances appeared, but these were, as a rule, shallow and had no great effect on the strength of the winds. Towards the end of the week the northern disturbances moved or spread a good deal to the southward over Russia, thus causing the high pressure to give way at its eastern extremity. The South-Westerly and Westerly to North-Westerly winds experienced over Scotland and northern Europe were occasionally very strong in force, and reached a gale at times over Scandinavia, Denmark, the Baltic and Finland, as well as on our own extreme northern coasts. The Easterly and North-Easterly winds prevailing over the southern countries was mainly moderate or light but increased to a strong breeze more than once over the north of Italy and the Riviera. Temperature was very low for the time of year over nearly the whole of Europe and at first over the United Kingdom also, but in the latter region it subsequently rose and became nearly equal to, or even above, the normal. Very dry weather was general within the region of high pressure, but rain was of frequent occurrence at our extreme northern and north-western stations and rain or snow fell at times over the more northern countries.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	5·8	− 1·5	12	− 3	BRIGHTON	18·8	+ 5·2	32	+ 8
STRATHPEFFER SPA	13·2	+ 4·9	27	+10	WORTHING	24·0	?	41	?
EDINBURGH	10·4	+ 1·9	20	+ 4	BOGNOR	23·2*	?	40*	?
MORPETH	19·0		36	?	WATERGATE (Emsworth)	25·0	?	43	?
NEWCASTLE-ON-TYNE	13·9	?	26	?	WESTBOURNE (Emsworth)	23·9*	+11·3	41*	+19
OSWALDKIRK (Yorkshire)	16·7	+ 7·4	31	+14	VENTNOR HOSPITAL	26·3	+12·9	45	+22
YORK	14·2	+ 6·7	26	+13	BOURNEMOUTH	33·2	?	57	?
LOWESTOFT	16·0	?	29	?	SOUTHPORT	13·2	?	24	?
HOLLESLEY BAY	24.0	?	43	?	RHYL	*	?	*	?
SHEFFIELD	15·0	?	27	?	COLWYN BAY		?		?
WORKSOP	8·9	+ 0·1	16	0	ABERDOVEY	15·5*	?	28*	?
THURCASTON (Leicestershire)	9·9	+ 0·3	18	0	TENBY	17·7	+ 5·2	32	+10
MARGATE	?	?	?	?	NEWQUAY	16·6	+ 1·8	28	+ 3
BROADSTAIRS	16·9	?	29	?	TORQUAY	21·6	+ 8·3	37	+15
EASTBOURNE	23·0	+ 9·5	40	+17	CAHIR (Duneske)	13·7*	?	24	?
					GUERNSEY	5·8*	− 6·6	10*	−11

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Sept. 14th, 1901	Newquay	—	—	—	—	—	—	—	—	—	—	—	31·5	− 6·0	35	− 7
" " " 21st, "	Strathpeffer Spa	—	—	—	—	—	—	—	—	—	—	—	23·1	− 3·4	27	− 4
" " " " "	Margate	—	—	—	—	—	—	—	—	—	—	—	2·2	−11·8	26	−13

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 49.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 7TH, 1901. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 290.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	33	48·4	39·0	43·9	4 above	26	+14	8	−17	2386	+386	698	−15
	1. SCOTLAND, EAST	55	25	48·0	37·5	43·0	4 above	26	+14	13	−19	2527	+180	849	+52
	2. ENGLAND, N.E.	56	26	48·7	38·3	43·7	4 above	27	+14	10	−16	2856	+275	637	+10
	3. ENGLAND, EAST	56	26	48·4	36·2	42·6	2 above	29	+13	16	−13	3133	+145	685	− 2
	4. MIDLAND COUNTIES	56	24	48·7	36·8	43·0	3 above	29	+13	15	−14	3075	+151	753	+42
	5. ENGLAND, SOUTH	56	26	49·5	39·0	44·5	2 above	30	+ 7	8	−12	3312	+ 11	539	+45
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	37	50·0	42·3	46·3	5 above	30	+13	0	−19	2686	+159	564	+25
	7. ENGLAND, N.W.	56	30	49·6	42·3	46·1	5 above	29	+11	0	−19	2966	+188	529	+34
	8. ENGLAND, S.W.	56	25	50·3	40·1	45·5	3 above	32	+ 6	5	− 8	3257	+159	467	+87
	9. IRELAND, NORTH	57	36	49·7	43·2	46·5	5 above	32	+13	0	−18	2702	+ 27	426	−33
	10. IRELAND, SOUTH	55	31	51·2	42·9	47·3	4 above	37	+ 9	0	−14	3122	+ 53	366	+30
	—CHANNEL ISLANDS	55	43	52·2	45·6	49·0	2 above	49	+ 8	0	− 3	3824	+139	165	+32

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 290.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	23	10 more	218	+ 3	41·1	− 5·6	2	− 4	5	− 7	1256	+153	29	+ 3
	1. SCOTLAND, EAST	5	4	3 less	184	0	25·5	− 4·3	9	+ 1	19	+ 2	1441	+167	34	+ 4
	2. ENGLAND, N.E.	2	3	3 less	154	−18	21·7	− 2·5	8	− 1	15	− 1	1514	+239	35	+ 5
	3. ENGLAND, EAST	3	3	2 less	145	−28	17·4	− 6·5	12	0	21	0	1778	+163	40	+ 4
	4. MIDLAND COUNTIES	2	5	2 less	141	−23	22·7	− 3·7	6	− 4	12	− 5	1461	+145	36	+ 3
	5. ENGLAND, SOUTH	3	2	4 less	133	−28	20·9	− 5·9	12	− 2	21	− 3	1823	+187	42	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	23	10 more	195	− 5	46·8	− 2·1	4	− 4	7	− 8	1505	+184	35	+ 4
	7. ENGLAND, N.W.	5	9	1 more	170	−11	27·4	− 5·7	5	− 4	10	− 7	1655	+281	38	+ 6
	8. ENGLAND, S.W.	5	11	0 (average)	156	−31	30·3	− 8·2	4	− 8	7	−14	1691	+ 66	40	+ 1
	9. IRELAND, NORTH	6	9	1 more	214	+ 2	35·1	+ 1·3	3	− 7	6	−13	1316	+ 75	31	+ 2
	10. IRELAND, SOUTH	5	9	1 less	176	−18	33·9	− 4·4	4	− 7	8	−13	1445	+ 30	34	+ 1
	— CHANNEL ISLANDS	5	3	6 less	177	−11	26·2	− 4·8	11	− 1	20	− 1	1886	+ 35	45	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was very rainy in the northern and western parts of Ireland and Scotland, and small amounts of rain were not infrequent in the western districts of England. In the south and east, however, the weather was generally dry, the small quantities of rain experienced mostly falling as the week drew towards its close.

Temperature was above the mean in all districts; in England E. and S. and in the Channel Islands the excess was no more than 2°, but in many other parts of the Kingdom it was 4°, and in Scotland W., England N.W. and Ireland N. it was as much as 5°. The highest of the maxima occurred on Saturday in most districts, but on Friday at many north-western and northern stations. In Ireland N. the thermometer rose to 57° and in all the English districts to 56°, but in Scotland, Ireland S. and the Channel Islands it did not rise above 54° or 55°. During the middle of the week the daily maxima were much lower than these values, and at many inland and eastern stations they did not exceed 45°. The lowest of the minima were registered on the 4th or 5th, and ranged from 24° in the Midland Counties and 25° in Scotland E. and England S.W, to 36° in Ireland N. and to 43° in the Channel Islands.

Rainfall greatly exceeded the normal in Scotland N. and W. and slightly in England N.W. and Ireland N., while in England S.W. it just equalled the mean value. In all other districts there was a deficit.

Bright Sunshine was rather in excess of the mean in Scotland E. and equal to it in England E.; elsewhere the records showed a deficiency. The percentage of the possible amount of duration ranged from 21 in England S. and E., and 20 in the Channel Islands to 6 in Ireland N. and 5 in Scotland N.

Barometer and Wind.—During this week the more southern parts of our Islands were affected by an anticyclone which at first lay over France and the Bay of Biscay, and then moved north-eastwards and embraced the major portion of England and the North Sea, and towards the end of the week receded southwards again to France and central Europe. The northern districts were in the meantime under the influence of large and deep cyclonic systems moving eastwards or east-south-eastwards towards Norway, and occasionally by their secondaries which passed in a similar direction further south. The winds experienced were consequently mainly from between South-West or West and North-West; in the south they were generally light or moderate in force, but in the north and north-west they were much stronger, and at the middle and end of the week they increased to a gale.

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II.—DATA from which the SUMMARY on page 289 has been calculated.

Districts.	Name of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	35	46·1	38·6	42·5	+ 1·8	18	10	7	1·76	+ 0·75	*	*	*	*
	Stornoway	53	37	49·0	40·4	44·9	+ 4·4	27	4	7	1·57	+ 0·29	3·1	- 3·9	7	- 8
	Wick	54	33	48·3	38·6	43·6	+ 4·0	25	10	5	0·42	- 0·30	*	*	*	*
	Lairg Ⓢ	50	33	48·0	36·4	42·4	+ 5·9	26	16	6	1·20	+ 0·32	*	*	*	*
	Glencarron Ⓢ	51	37	48·1	39·3	43·9	+ 5·5	25	8	6	4·19	+ 1·92	*	*	*	*
	Fort Augustus Ⓢ	53	35	49·3	38·1	43·9	+ 4·3	30	11	6	2·69	+ 1·53	1·2	- 1·7	3	- 3
	Fort William Ⓢ	53	39	49·9	41·6	45·9	+ 5·2	29	1	7	4·34	+ 2·24	0·2	- 3·8	0	- 8
1. SCOTLAND, E.	Nairn	53	33	48·4	39·3	44·0	+ 5·2	25	8	6	0·55	+ 0·05	*	*	*	*
	Aberdeen	53	32	47·6	39·6	43·8	+ 4·3	23	7	3	0·15	- 0·59	15·9	+ 5·9	33	+13
	Braemar Ⓢ	51	25	47·0	33·2	40·4	+ 4·2	14	36	6	0·41	- 0·39	*	*	*	*
	Ochtertyre Ⓢ	52	31	48·0	37·1	42·8	+ 4.1	26	14	5	0·57	- 0·44	*	*	*	*
	Leith	55	35	49·9	40·1	45·2	+ 4·5	30	5	4	0·30	- 0·15	*	*	*	*
	Marchmont Ⓢ	53	30	47·0	35·9	41·7	+ 3·6	14	27	3	0·50	- 0·23	8·0	- 0·7	16	- 2
2. ENGLAND, N.E.	Alnwick Castle	53	29	48·7	39·2	44·1	+ 4·2	26	8	3	0·14	- 0·59	*	*	*	*
	Durham	54	29	48·2	38·6	43·6	+ 4·4	25	10	1	0·14	- 0·48	9·4	- 1·1	18	- 2
	Shields	56	33	49·1	39·4	44·4	+ 3·8	28	7	2	0·31	- 0·23	*	*	*	*
	Scarborough Ⓜ	54	33	48·9	39·4	44·3	+ 3·4	27	7	3	0·38	- 0·25	5·3	—	10	—
	Spurn Head	54	36	48·9	38·7	44·0	+ 2·7	28	9	1	0·25	- 0·23	*	*	*	*
	Fulbeck (Lincolnshire)	54	26	48·4	34·7	41·8	+ 2·9	18	32	2	0·35	- 0·11	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	54	28	47·3	35·3	41·5	+ 1·9	15	29	5	0·40	- 0·18	12·1	+ 1·5	23	+ 4
	Yarmouth	54	34	48·0	37·3	42·9	+ 2·3	26	13	4	0·53	- 0·26	*	*	*	*
	Geldeston	54	32	48·3	37·1	43·2	+ 2·6	29	14	4	0·45	- 0·09	15·4	+ 3·1	29	+ 7
	Cambridge	56	28	49·1	35·3	42·5	+ 2·5	32	19	2	0·27	- 0·16	8·3	- 2·7	15	- 5
	Felixstowe	54	34	48·4	37·9	43·4	+ 2·3	27	11	2	0·30	—	10·7†	— †	20†	— †
	Rothamsted	55	26	48·8	34·4	41·9	+ 2·0	19	33	2	0·21	- 0·36	8·2	- 3·1	15	- 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	28	50·1	36·3	43·5	+ 3·8	34	16	1	0·25	- 0·22	*	*	*	*
	Loughborough	55	25	49·0	36·3	42·9	+ 2·9	30	16	2	0·31	- 0·23	*	*	*	*
	Colly Weston (Stamford)	55	30	49·0	35·3	42·4	+ 3·5	31	19	2	0·34	—	*	*	*	*
	Cheadle Ⓜ	52	32	47·0	38·4	42·9	+ 4·0	21	10	2	0·49	- 0·24	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	35	48·1	39·8	44·1	+ 3·7	24	6	2	0.40	- 0·14	1·9	—	4	—
	Churchstoke Ⓜ	53	32	49·0	39·7	44·5	+ 4·3	27	6	4	0·86	+ 0·11	2·1	- 7·9	4	-14
	Hereford (Belmont) Ⓜ	56	32	50·3	37·3	44·1	+ 3·5	34	13	2	0·43	- 0·13	*	*	*	*
	Cirencester	54	24	47·4	33·4	40·7	+ 1·1	15	36	2	0·73	+ 0·06	7·9	- 2·7	15	- 4
	Oxford	55	28	48·4	34·9	41·9	+ 1·4	18	31	3	0·22	- 0·28	10·0	- 0·8	19	- 1
5. ENGLAND, S.	London	56	32	50·4	36·4	43·7	+ 2·5	35	16	2	0.07	- 0·45	3·0†	- 3·1†	6†	- 5†
	Swarraton (Alresford) Ⓜ	54	26	48·3	33·0	41·0	+ 1·1	18	38	4	0·34	- 0·36	*	*	*	*
	Dungeness	52	31	49·4	37·9	43·9	+ 1·2	31	11	2	0·20	- 0·33	13·3	—	24	-
	Hastings (St. Leonards)	53	36	48·5	41·0	44·9	+ 2·3	25	3	3	0·15	- 0·54	12·7	- 1·6	23	- 2
	Southampton	55	33	49·9	40·3	45·3	+ 2·7	30	5	4	0·31	- 0·42	7·1	- 5·2	13	- 8
	Portland Bill	53	43	50·3	45·3	47·9	+ 4·3	41	0	4	0·15	—	*	*	*	*
	Shaftesbury Ⓜ	53	?	47·6	?	?	?	?	?	4	0·48	- 0·27	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	39	50·7	42·0	46·5	+ 4·7	32	0	7	4·29	+ 2·20	*	*	*	*
	Glasgow	51	39	49·0	41·7	45·5	+ 5·3	26	1	6	1·31	+ 0·37	3·7	- 1·0	8	- 1
	Glenlee Ⓢ															
	Douglas (Isle of Man)	53	37	50·3	43·1	46·8	+ 3·9	34	0	5	1·40	+ 0·33	3·2	- 7·4	6	-14
7. ENGLAND, N.W.	Newton Reigny	53	30	48·3	39·0	43·8	+ 4·7	25	8	6	1·06	—	7·1	—	14	—
	Stonyhurst	50	35	47·3	40·2	43·9	+ 3·9	21	5	5	1·65	+ 0·55	5·8	- 1·6	11	- 3
	Blackpool Ⓜ	52	39	49·4	43·7	46·7	+ 5·6	33	0	5	0·85	+ 0·10	5·3	- 2·1	10	- 4
	Manchester (Prestwich)	52	35	48·5	40·0	44·4	+ 4·3	25	6	5	1·32	+ 0·48	3·1	—	6	—
	Liverpool Obsy. (Bidston)	55	40	50·3	42·4	46·5	+ 4·7	32	0	4	0·68	+ 0·06	3·5	—	7	—
	Chester (Hawarden Bridge)	56	38	51·6	43·0	47·5	+ 5·1	39	0	2	0·10	—	*	*	*	*
	Llandudno Ⓜ	54	42	50·9	45·3	48·2	+ 4·6	43	0	5	1·03	+ 0·30	1·1	- 8·3	2	-15
	Holyhead	52	43	50·3	44.6	47·6	+ 3·0	39	0	5	0·69	- 0·21	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	29	49·9	37·3	43·9	+ 3·3	33	13	5	1·70	+ 0·46	*	*	*	*
	Pembroke	54	43	52·4	45·9	49·3	+ 3·8	51	0	5	1·01	+ 0·07	2·6	- 9·2	5	-16
	Clifton	54	34	49·6	37·7	43·9	+ 2·3	31	12	3	1·14	+ 0·37	*	*	*	*
	Bath	56	25	50·1	34·6	42·7	+ 1·1	36	21	2	0.68	—	3·6	—	6	—
	Arlington (N. Devon)	52	35	48·1	39·9	44·2	+ 2·3	24	6	4	1·73	+ 0·30	*	*	*	*
	Cullompton Ⓜ	55	29	50·8	36·9	44·1	+ 3·1	36	14	5	0·44	- 0·41	4·0	- 6·2	7	-11
	Falmouth	54	39	51·0	44·9	48·1	+ 2·2	43	0	6	1·11	- 0·14	6·9	- 7·2	12	-12
	Plymouth	54	35	50·7	43·9	47·4	+ 2·8	38	0	6	0·56	- 0·37	3·0	- 9·6	5	-17
9. IRELAND, N.	Malin Head	54	43	50·0	45·3	47·7	+ 4·6	40	0	6	0·74	—	*	*	*	*
	Edenfel (Omagh)	53	36	47·9	41·1	44.6	+ 5.2	22	3	6	1·01	+ 0·16	*	*	*	*
	Blacksod Point	57	44	51·9	46·7	49·4	+ 5·3	52	0	7	1·35	—	*	*	*	*
	Markree Castle	54	37	50·4	42·4	46·6	+ 5·7	32	0	7	1·04	+ 0·09	4·7	- 5·0	9	- 9
	Armagh	52	36	48·7	41·4	45·2	+ 4·7	25	2	4	0·83	+ 0·17	1·2	- 9·0	2	-17
	Donaghadee	53	36	49·0	42·0	45·6	+ 3·0	25	0	3	0·54	- 0·14	*	*	*	*
10. IRELAND, S.	Dublin	55	39	51·3	43·5	47·6	+ 4·6	39	0	6	0·85	+ 0·28	5·0	- 8·5	9	-16
	Parsonstown	55	34	50·4	40·9	45·8	+ 4·6	31	3	7	0·94	+ 0·21	5·5	- 6·2	10	-12
	Kilkenny	54	31	50·3	39·3	45·1	+ 2·9	33	8	5	0·93	+ 0·22	*	*	*	*
	Roche's Point	54	40	51·9	43·9	48·1	+ 2·7	43	0	3	0·35	- 0·85	*	*	*	*
	Valencia	55	43	52·0	47·1	49·7	+ 3·6	54	0	6	1·39	- 0·01	5·3	- 6·3	10	-11
	Killarney	?	39	?	44·0	?	?	?	?	5	0·63	- 0·38				
	Foynes	55	39	51·5	42·7	47·3	+ 4·1	37	0	6	1·29	+ 0·26	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	52·6	46·0	49·4	+ 1·1	52	0	4	0·39	- 0·54	8·9	—	16	—
	Jersey	54	43	51·7	45·1	48·5	+ 2·7	46	0	5	0·27	- 0·63	14·8	- 0·5	26	- 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

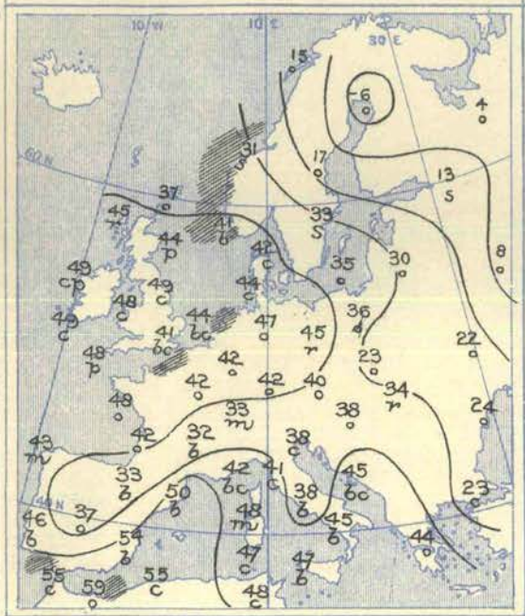
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

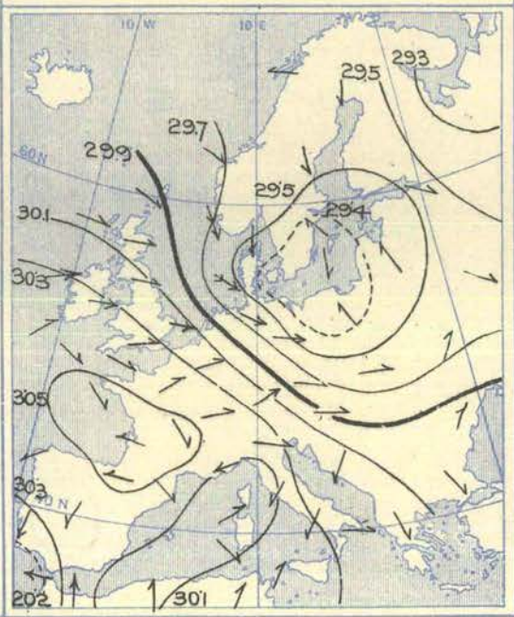
Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 1st December.

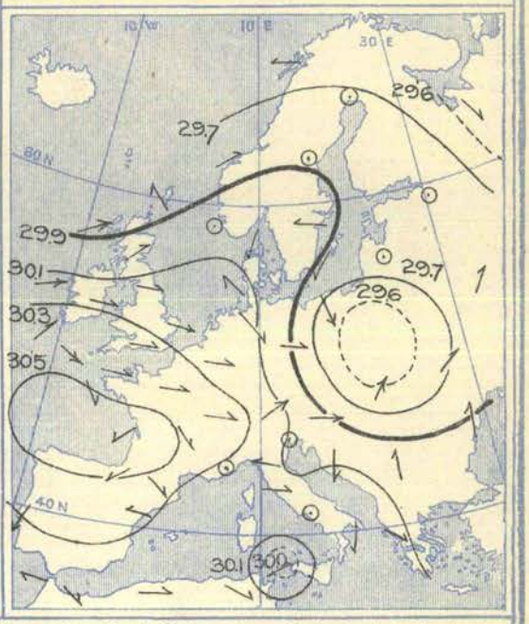
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over eastern and central England, and also over the greater part of southern Europe. Cloudy or dull elsewhere, with rain or passing showers at several of our own western and northern stations, and also in Germany and Austria; snow falling at some of the Scandinavian and northern Russian stations. Rain occurring later in most parts of Ireland and Scotland, and also over Norway, Denmark, Germany, and the Netherlands, but amount small as a rule.

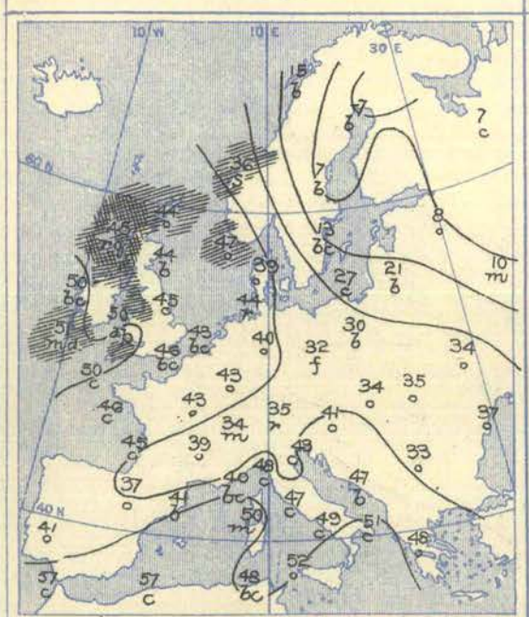
Temperature fallen in Scotland and Norway, and also in Italy and the south of Russia, but risen elsewhere. Morning readings highest, 59° at Nemours, 58° at Oran, and 55° at San Fernando and Algiers; above 45° at most of the Mediterranean and Adriatic stations, and also over the greater part of the United Kingdom. Lowest, – 6° Fahr. at Haparanda, + 4° at Archangel, 8° at Moscow, and 13° at St. Petersburg; below the freezing point over nearly the whole of Russia and Scandinavia. Rising during day to 50° or slightly above it over our Islands generally, but remaining below that point over eastern and central England; exceeding 55° in many parts of southern Europe.

Wind light to fresh from the Westward or North-Westward over England, the Netherlands, and the north of France; strong from West or South-West in Denmark and Germany, with a gale at Fanö. Northerly in Scandinavia, with a hard gale at Skudesnaes. Light to moderate from the Eastward or North-Eastward over the Spanish Peninsula, the southern parts of France and western Italy; light from the Westward over the Adriatic, subsequently veering to the Northward in Denmark; no important change occurring elsewhere.

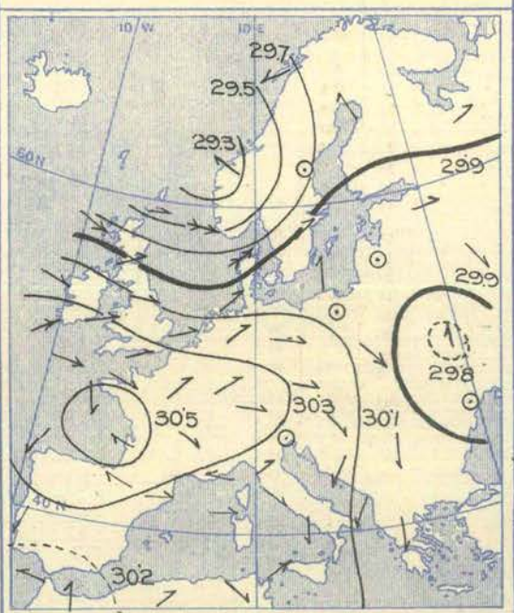
Barometer highest, 30·5 ins. and upwards over the Bay of Biscay and the western and central parts of France; 30·1 ins. and upwards in an anticyclone covering the greater part of western and southern Europe. Lowest, 29·3 ins. and less in a cyclonic area over the north of Russia; 29·4 ins. and less in another system over the Baltic and the south of Sweden. Former disturbance subsequently moving away to the eastward; latter system moving south-eastward to south-west Russia; new depression appearing off the north of Scotland in evening.

Monday, 2nd December.

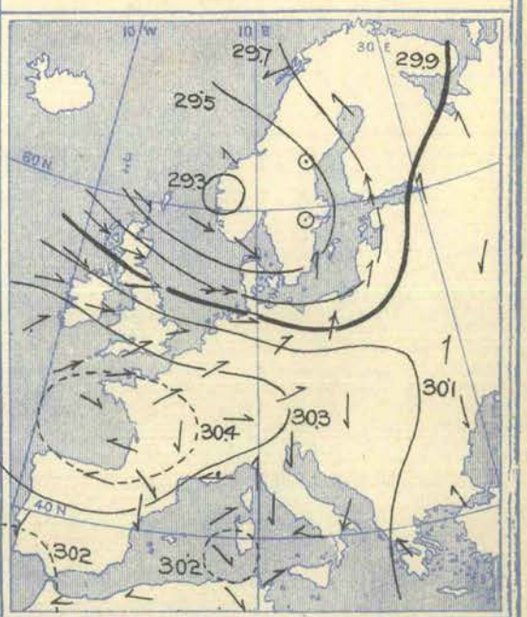
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the eastern parts of Great Britain, and also over Sweden and the greater part of southern Europe. Cloudy or dull elsewhere, with showers at several of our western stations, and snow at Christiansund and Ulcaborg. Slight rain falling later on our own extreme south-western, western, and northern coasts, and larger quantities in Scandinavia, Denmark, and Germany.

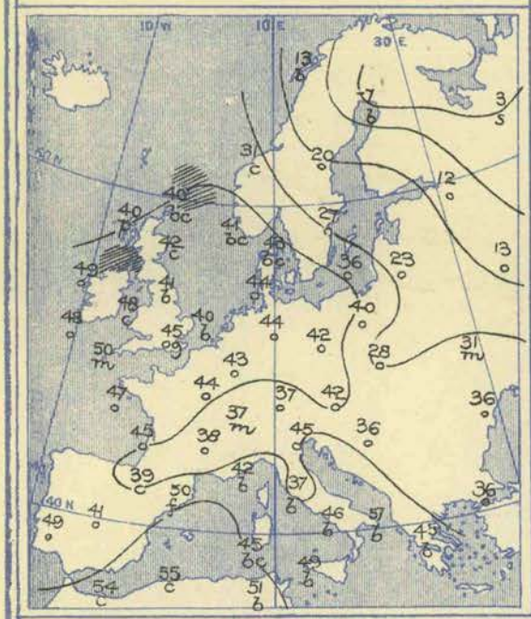
Temperature risen in most countries, but fallen over Sweden and northern Russia as well as in many parts of Germany and Austria. Morning readings highest, 64° at Oran, 57° at San Fernando and Algiers, and 55° at Nemours; above 50° at most of the Mediterranean stations, and also on some parts of our own south-west coasts. Lowest, – 7° Fahr. at Haparanda, + 7° at Archangel and Hernösand, 8° at St. Petersburg, and 10° at Moscow. Rising during day to 50° and upwards in many parts of the United Kingdom, and to 54° at Scilly; exceeding 55° over southern Europe generally, and reaching 62° at Palermo.

Wind Westerly or South-Westerly over the greater part of north-western Europe; moderate to fresh in force generally, but blowing a moderate gale on our own extreme north-west coasts, and a fresh gale in the north of Denmark and the south of Norway; Easterly in the west of Norway. Light to moderate from the Northward or North-Westward in Italy, and from the Eastward or North-Eastward over the Spanish Peninsula. No decided change occurring during day.

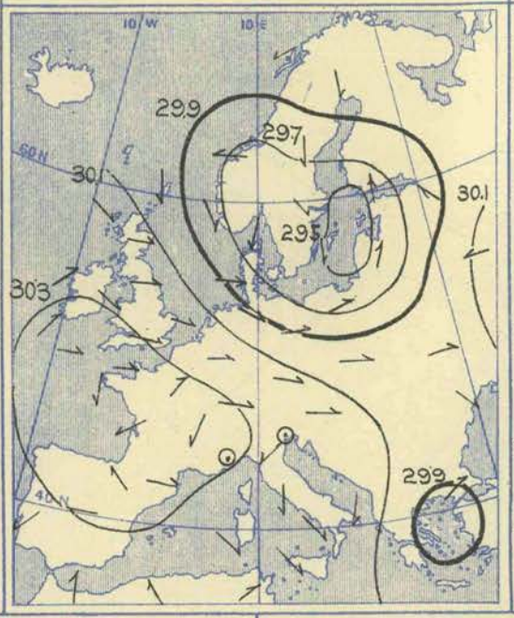
Barometer highest, 30·5 ins. and upwards in the west of France; 30·2 ins. and upwards in an anticyclone covering the whole of central and south-western Europe and extending northwards over the southern half of the United Kingdom. Lowest, 29·3 ins. and less in a well-marked cyclonic system with its centre off the west of Norway; 29·8 ins. and less in a shallow disturbance over the south of Russia. Former system subsequently advancing south-eastwards over Norway; latter disturbance apparently filling up.

Tuesday, 3rd December.

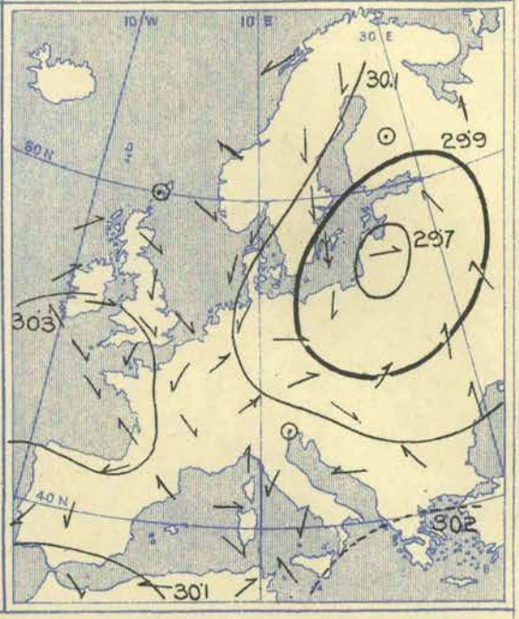
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on the east coast of Great Britain and also in Greece, Italy and the southern parts both of France and Norway; cloudy or dull elsewhere, with showers at Stornoway and Jersey; snow falling at Archangel. Showers falling later in several isolated parts of western Europe; snow reported over a considerable portion of Russia and the south of Sweden.

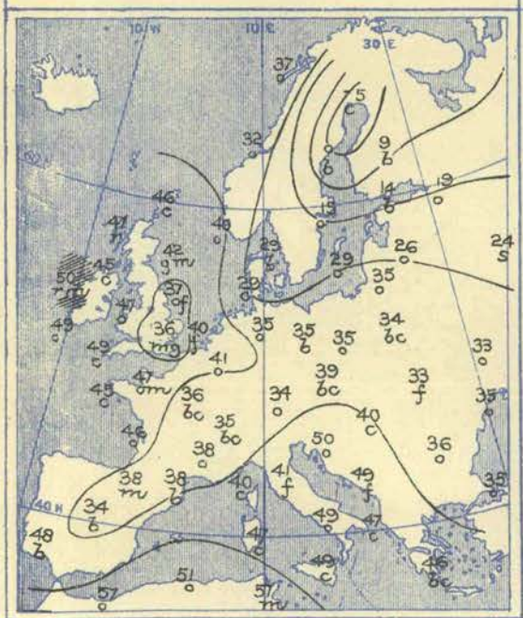
Temperature fallen in our islands and Norway and also in Italy; risen in most other countries. Morning readings highest, 55° at Algiers, 54° at Nemours, and 53° at Oran; above 50° at most of the Algerian stations and just touching that point in the western parts of the English Channel. Lowest, – 7° Fahr. at Haparanda, – 3° at Archangel, + 12° at St. Petersburg and 13° at Moscow; below the freezing point in most parts of Russia and Scandinavia. Rising during day to 50° or slightly above it on many parts of our western and southern coasts; exceeding 55° over southern Europe as a whole, and reaching 66° at Palermo. Frost occurring over Great Britain at night.

Wind light to moderate from the Westward or North-Westward over the United Kingdom and the central parts of the Continent generally, but South-Westerly in the west of Ireland. Easterly in the west of Norway, but Northerly in Sweden and the south of Norway, and Southerly over northern Russia, Northerly or North-Westerly in Italy, Easterly or North-Easterly over the Spanish Peninsula and the Bay of Biscay. No important change occurring during day.

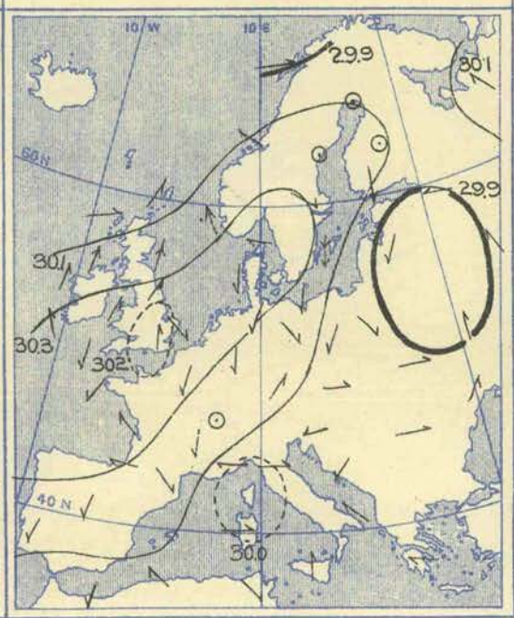
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Bay of Biscay, France, the north of Spain and the south-western parts of the United Kingdom. Lowest, 29·4 ins. and less in a cyclonic area with its centre near the mouth of the Gulf of Finland. Latter system moving southwards later and partially filling up. Anticyclone spreading northwards over the greater part of Ireland and England.

Wednesday, 4th December.

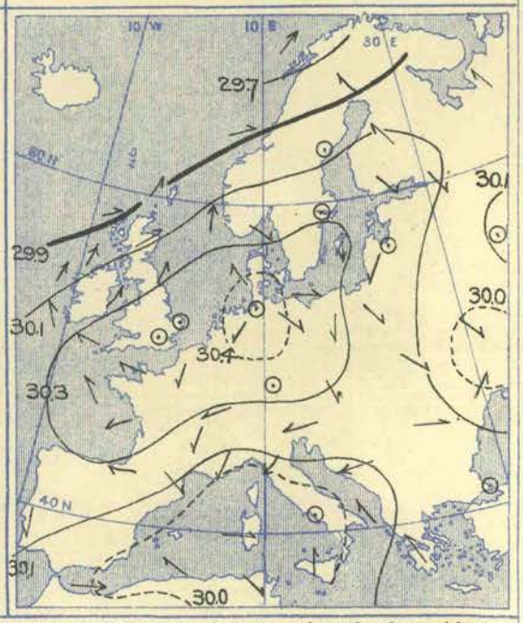
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of Europe, with fog over eastern and central England and with rain at Stornoway and Blacksod Point. Fine over Finland and Sweden and also in Spain and some parts of Germany and central France. Rain falling later over nearly the whole of Ireland and the west and north of Scotland, and also over Italy and the Adriatic; snow reported at several of the Russian stations.

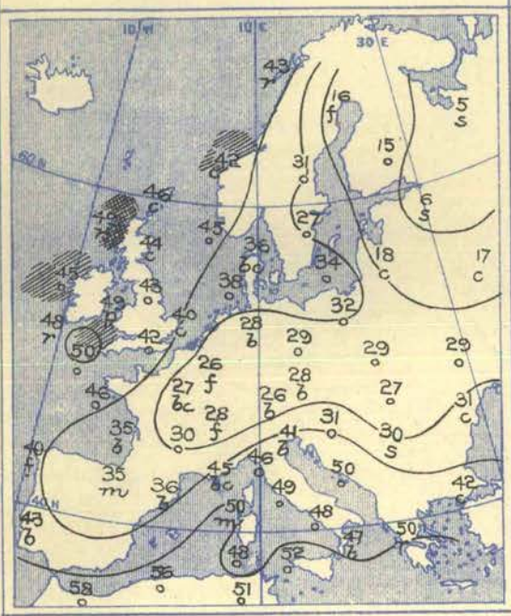
Temperature fallen in most parts of western, northern and central Europe, considerably in England, Sweden and Denmark, but risen elsewhere. Morning readings highest, 57° at Nemours and Tunis, 56° at Oran, and 51° at Algiers and La Calle; above 45° in the west and extreme north of the United Kingdom and reaching 50° at Blacksod Point. Lowest, – 5° Fahr. at Haparanda, 0 zero at Hernösand and + 7° at Archangel, Ulealborg and Karlstad; below the freezing point over central England. Rising during day to 50° or slightly above it at several of our own western and extreme northern stations; exceeding 55° in many parts of southern Europe, and reaching 62° at Cagliari and Palermo.

Wind South-Westerly and light to fresh in force in the west and north of our islands, and light from between North-East and North-West in our more southern and eastern districts. Two distinct cyclonic circulations of light wind over continental Europe—one over Russia, and the other over Italy, the Riviera, and the neighbouring parts of the Mediterranean. Northerly current in the Baltic strong to a gale in force. No great change later, but South-Westerly wind spreading more over our Islands, strong winds in Baltic decreasing, and the Easterly wind in northern Italy increasing in force.

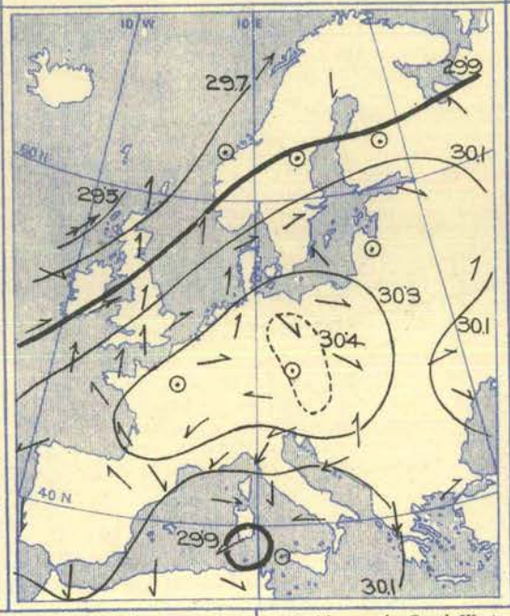
Barometer at 8 a.m.: highest, 30·4 ins. and more over central and southern England and above 30·3 ins. over the whole of England, the southern half of the North Sea, Denmark, the Netherlands, and the greater part of France and the Bay of Biscay. Lowest, 29·9 ins. and less in a large shallow disturbance over Russia and 30·0 ins. and less in another but smaller system having its centre over Corsica. Highest pressure area moving eastward later, and a cyclonic disturbance advancing towards Scotland from the westward. Russian and Mediterranean disturbances becoming less well defined.

Thursday, 5th December.

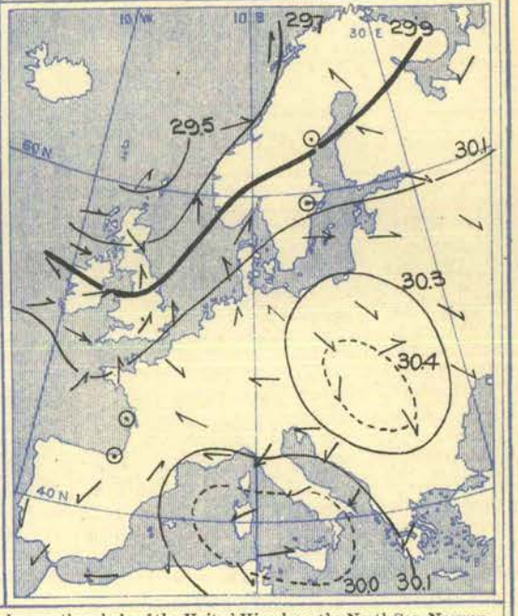
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over Europe as a whole, but fine and bright in some parts of France, Germany, Italy and Spain. Rain falling at some of our own western and northern stations, and also at Bodö and Patras and snow at Archangel, St. Petersburg and Hermanstadt. Rain later in most parts of the United Kingdom, in Brittany, Italy and Algeria, and snow at some Russian stations.

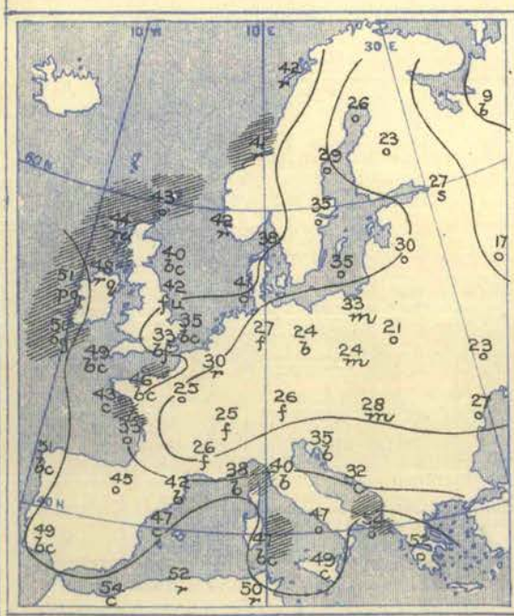
Temperature risen over our islands and Scandinavia, Italy and Greece, but fallen in most other regions. 8 a.m. readings: highest, 57° or 58° in Western Algeria, 52° at Palermo, 51° at Pembroke. Lowest, 5° at Archangel, 6° at St. Petersburg, 13° at Hangö and Helsingfors, and 17° at Moscow; below 32° over eastern France, central Europe and Russia generally. Rising during day to 50° or above at many of our western and south-western stations, to 55° at Nice, 62° at Rome, and to 66° at Nemours. Remaining below freezing point over Russia, and also at some stations in the central parts of France, Germany, and Austria-Hungary.

Wind in morning South-Westerly over the whole of the United Kingdom, the North Sea, Norway, and Denmark, and strong to a gale on our west and north-west coasts. Light and variable over the central countries, light circulation over southern Russia and another over Italy, the Riviera, Corsica and Sardinia. South-Westerly current decreasing in force on our north-western coasts during day, but extending to Sweden and the north of France, and blowing strongly at Karlstad and Wisby and a gale at Skudesnaes. Cyclonic circulation over southern Russia dispersing.

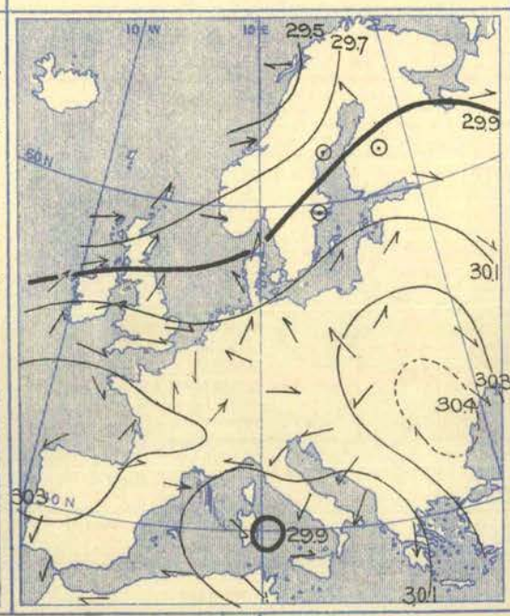
Barometer at 8 a.m.: highest, 30·4 ins. and upwards over eastern Germany and 30·3 ins. and upwards over the greater part of France and central Europe. Lowest, 29·5 ins. and less in a disturbance to the north-westward of Scotland, 29·9 ins. and less in a similar system lying between Sardinia and Sicily, and below 30·0 ins. over the south-east of Russia. Northern disturbance moving westwards later and barometer beginning to rise again on our west and north-west coasts. Secondary disturbance passing eastwards across England. Mediterranean cyclonic system filling up somewhat.

Friday, 6th December.

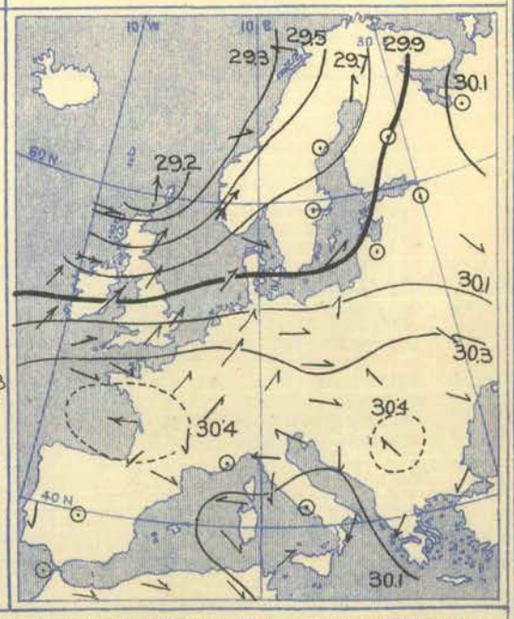
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in most parts of Great Britain, but with fog at some of our eastern and central stations. Fine also over northern Italy and the south of France, but cloudy or dull in nearly all other parts of Europe, with rain in Ireland and the west of Scotland, and also in the west of Norway. Snow reported at St. Petersburg. Fog prevailing at several of the German, Austrian and central French stations. Rain falling later in most parts of western Europe; lightning seen at Wick at night.

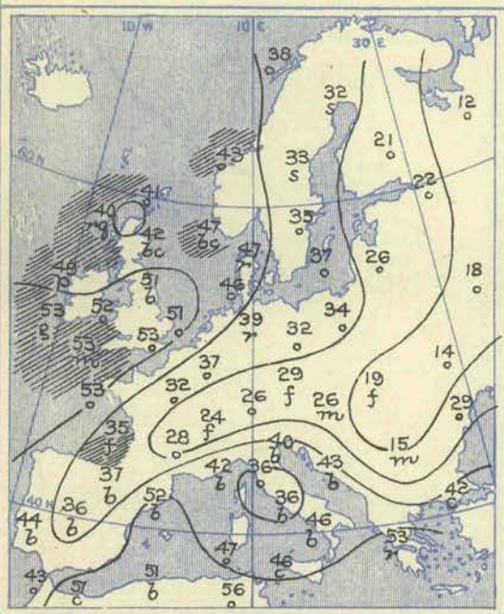
Temperature fallen over the greater part of western, central and southern Europe, but risen in the west of Ireland; risen also over the Netherlands, Denmark, northern Russia and the south of Sweden. Morning readings highest, (1) 54° at Brindisi and Nemours and 53° at Oran; (2) 51° at Blacksod Point and Valencia (Ireland); above 45° at our own western stations generally. Lowest, 7° at Hermanstadt, 9° at Archangel and 17° at Moscow; below the freezing point in most parts of northern, eastern and central Europe. Rising during day to 55° or slightly above it at several of our own western and northern stations, and also over the Spanish Peninsula and southern Italy, and reaching 62° at Cagliari and Palermo.

Wind South-Westerly or Westerly over north-western and northern Europe generally; light or moderate in force in most places, but strong in the north of Ireland and also at some of the Norwegian stations. Chiefly Southerly in Germany; variable in Austria, North-Easterly or Northerly over Italy and the Spanish Peninsula. Subsequently increasing to a gale from the Westward or South-Westward on many parts of our own northern coasts, and also in the south-west of Norway; no important change occurring elsewhere.

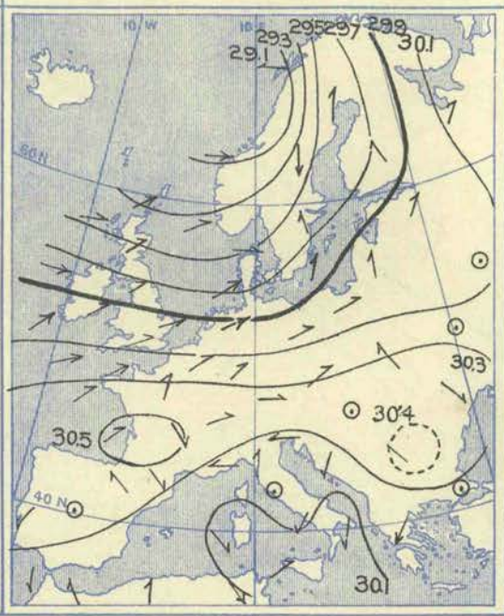
Barometer highest, 30·4 ins. and upwards over eastern Austria; 30·2 ins. and upwards in an anticyclone stretching from east to west across all the more central and south-western parts of the Continent. Lowest, 29·5 ins. and less in a large depression with its centre off the northern part of the Norwegian coast; 29·9 ins. and less in a shallow disturbance off the south coasts of Sardinia. New depression appearing later off the north of Scotland, and gradients becoming steep over our Islands and the North Sea.

Saturday, 7th December.

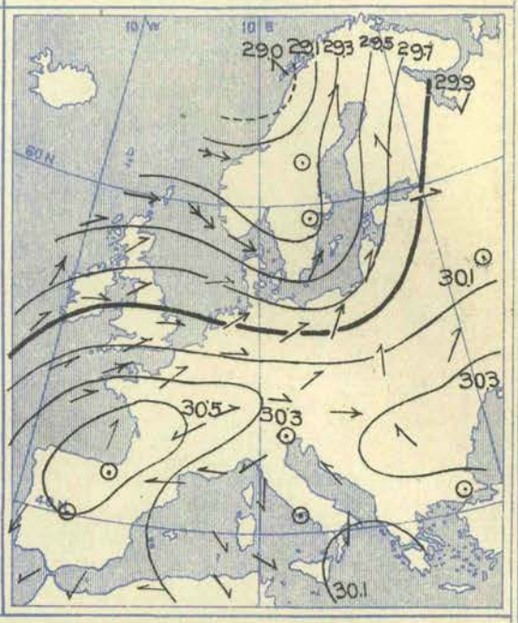
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning dull over western, northern and central Europe generally, with rain in several parts of our Islands, the Netherlands, Denmark, and north Germany, and with snow over the Gulf of Bothnia. Fine in most of the southern countries but dull in Greece, with rain at Patras. Rain falling later over western and northern Europe generally—rather heavily in places. Lightning seen in the north of Scotland at night.

Temperature risen generally, but fallen in the extreme north and north-west of our Islands and also in many parts of southern Europe. Morning readings highest, (1) 57° at Nemours, 56° at La Calle, and 53° at Brindisi, Patras and Tunis; (2) 53° in London and at Valencia, Roche's Point, Pembroke and Scilly; above 50° at most of the English stations. Lowest, 12° at Archangel, 14° at Kiev, and 15° at Kharkov and Hermanstadt. Rising during day to 55° or slightly above it in several parts of England and Ireland and also in Spain and the southern parts of France and Italy, and reaching 63° at Palermo.

Wind South-Westerly or Westerly over western and central Europe generally and strong in force in many places, with a gale at Malin Head; Southerly over Sweden and northern Russia; Easterly at Bodö. Variable over Italy and the south of France; Easterly or North-Easterly over the Spanish Peninsula—subsequently backing to the Southward on our own extreme western coasts; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over the western and central parts of France; 30·4 ins. and upwards over eastern Austria; 30·1 ins. and upwards in an anticyclone covering all the more southern parts of Europe. Lowest, 29·1 ins. and less in a cyclonic area lying off the northern parts of the Norwegian coasts. Latter systems remaining almost stationary during day; new disturbance approaching our own western coasts from Atlantic.

GENERAL NOTES.

At the commencement of the week an anticyclone lay over France and the Bay of Biscay, while a well-marked low pressure area moved in an east-south-easterly direction across Scandinavia and Russia. During the progress of the latter system strong Westerly winds were experienced in many parts of northern and north-western Europe, with gales on some parts of our own northern coasts, and also in Denmark and the south of Scandinavia.

As the disturbance moved away the anticyclone over France spread temporarily northwards over the whole of the United Kingdom and the North Sea. The wind in those regions consequently fell light, and although fine weather prevailed in most places, a good deal of fog was experienced over the central parts of England. On the 4th the anticyclone began to travel away to the eastward, the system afterwards moving across central Europe to the southern countries, where it was found by the close of the week. A new series of cyclonic disturbances now advanced from the Atlantic, their centres skirting our extreme north-western and northern coasts, and afterwards passing on to Scandinavia. Strong South-Westerly and Westerly winds consequently set in again over our Islands and the northern and central parts of the Continent, and blew with the force of a gale on many parts of our own western and northern coasts, the weather being in a very changeable condition generally. At the close of the week the thermometer was very high for the time of year. On the 6th and 7th the daily maxima exceeded 55° in several parts of the United Kingdom and on the night of the 7th there were many places in the south of England in which the thermometer failed to go as low as 50°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	2·9	- 4·0	7	- 8	BRIGHTON	8·1	- 4·8	14	- 9
STRATHPEFFER SPA	2·6	- 5·4	6	-11	WORTHING	11·4	—	20	—
EDINBURGH	4·3	- 2·5	9	- 5	BOGNOR	15·3*	—	27*	—
MORPETH	11·9	—	23	—	WATERGATE (Emsworth)	11·8	—	21	—
NEWCASTLE-ON-TYNE	5·9	—	11	—	WESTBOURNE (Emsworth)	12·5*	+ 0·1	22*	0
OSWALDKIRK (Yorkshire)	6·9	- 1·9	13	- 3	VENTNOR HOSPITAL	12·1	- 0·5	22	- 1
YORK	6·8	- 0·1	13	0	BOURNEMOUTH	17·5	—	31	—
LOWESTOFT	15·0	—	28	—	SOUTHPORT	4·7	—	9	—
HOLLESLEY BAY	10·8	—	20	—	RHYL	12·5*	—	24*	—
SHEFFIELD	9·3	—	18	—	COLWYN BAY	—	—	—	—
WORKSOP					ABERDOVEY	2·8*	—	5*	—
THURCASTON (Leicestershire)	5·4	- 3·2	10	- 6	TENBY	1·4	-10·1	3	-18
MARGATE	—	—	—	—	NEWQUAY	1·8	-11·8	3	-20
BROADSTAIRS	14·6	—	26	—	TORQUAY	10·4	- 2·4	18	- 4
EASTBOURNE	13·0	- 0·3	23	0	CAHIR (Duneske)	1·8*	—	3*	—
					GUERNSEY	10·1*	- 1·5	17*	- 3

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Sept. 21st, 1901	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	29·0	—	34	—
„ „ „ 28th, „	Swarraton	67	50	64·6	52·2	58·1	+ 3·2	113	0	1	0·06	- 0·64	—	—	—	—
„ „ „ „ „	Rhyl	—	—	—	—	—	—	—	—	—	—	—	42·5	—	51	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XVIII. No. 50.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 14TH, 1901. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 296.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	12	37·8	29·3	33·7	5 below	0	− 9	58	+30	2386	+377	756	+15
	1. SCOTLAND, EAST	44	12	37·5	28·4	33·2	5 below	0	− 9	62	+27	2527	+171	911	+79
	2. ENGLAND, N.E.	54	23	41·0	33·8	37·6	2 below	0	−11	31	+ 2	2856	+264	668	+12
	3. ENGLAND, EAST	56	28	44·2	35·8	40·2	1 above	6	− 6	25	− 8	3139	+139	710	−10
	4. MIDLAND COUNTIES	55	29	42·0	35·1	38·7	0 (average)	0	−13	23	−11	3075	+138	776	+31
	5. ENGLAND, SOUTH	55	29	45·6	38·5	42·2	1 above	16	− 2	10	−13	3328	+ 9	549	+32
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	24	40·9	32·4	36·8	4 below	0	−14	36	+15	2686	+145	600	+40
	7. ENGLAND, N.W.	55	20	42·1	35·7	39·0	2 below	0	−15	23	+ 1	2966	+173	552	+35
	8. ENGLAND, S.W.	55	31	45·6	38·7	42·3	0 (average)	16	− 7	9	− 6	3273	+152	476	+81
	9. IRELAND, NORTH	49	28	41·4	34·5	38·1	3 below	0	−16	27	+ 7	2702	+ 11	453	−26
	10. IRELAND, SOUTH	56	30	42·6	36·9	39·9	3 below	2	−23	19	+ 3	3124	+ 30	385	+33
	—CHANNEL ISLANDS	55	38	49·8	44·4	47·2	1 above	36	0	0	− 4	3860	+139	165	+28

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 296.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	12	1 less	225	+ 5	42·3	− 5·8	6	+ 1	14	+ 3	1262	+154	29	+ 3
	1. SCOTLAND, EAST	5	9	2 more	189	+ 1	26·4	− 4·1	10	+ 3	22	+ 6	1451	+170	34	+ 4
	2. ENGLAND, N.E.	5	15	9 more	159	−16	23·2	− 1·6	11	+ 4	22	+ 8	1525	+242	35	+ 5
	3. ENGLAND, EAST	5	21	16 more	150	−27	19·5	− 4·9	13	+ 1	25	+ 2	1791	+164	39	+ 3
	4. MIDLAND COUNTIES	6	17	11 more	147	−21	24·4	− 2·6	9	0	16	0	1470	+145	36	+ 4
	5. ENGLAND, SOUTH	6	17	10 more	139	−26	22·6	− 4·8	10	− 1	19	− 2	1833	+186	42	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	5 less	200	− 4	47·7	− 2·6	14	+ 7	28	+14	1519	+191	35	+ 4
	7. ENGLAND, N.W.	5	10	2 more	175	−10	28·4	− 5·6	9	+ 3	18	+ 6	1664	+283	38	+ 6
	8. ENGLAND, S.W.	6	19	9 more	162	−30	32·2	− 7·3	9	− 3	16	− 6	1700	+ 63	40	+ 2
	9. IRELAND, NORTH	5	10	2 more	219	+ 2	36·1	+ 1·6	21	+12	41	+24	1337	+ 88	31	+ 2
	10. IRELAND, SOUTH	5	13	2 more	181	−17	35·2	− 4·1	16	+ 5	30	+10	1461	+ 35	34	+ 1
	— CHANNEL ISLANDS	7	27	18 more	184	− 8	28·9	− 3·0	8	− 4	14	− 7	1894	+ 32	45	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this week was very rough and unsettled in all districts. Rain fell almost daily and that experienced during the middle of the week was unusually heavy in all the southern counties, while the more central and more northern parts of England were visited by equally heavy falls of sleet or snow. Thunderstorms were recorded at some of our extreme northern stations at the commencement of the week.

Temperature was again a little above the mean in England S. and the Channel Islands and just equal to it in the Midland Counties and England S.W. In all other districts, however, it was below, the difference in Scotland being as much as 4° or 5°. The highest of the maxima were recorded on Sunday, when they ranged from 56° in England E. and Ireland S. to 49° in Ireland N., 48° in Scotland N. and 44° in Scotland E. The lowest of the minima were registered, as a rule, on the 12th, and varied from 12° in Scotland N. and E. to 30° in Ireland S., 31° in England S.W., and to 38° in the Channel Islands.

Rainfall was rather less than the mean in the north and west of Scotland, but more in all other districts. The excess was very large over the greater part of England and in the Channel Islands; in the last-named district the fall was three times, and in England E. as much as four times, as large as the mean value. The heaviest daily fall at any one of our stations was 2·5 ins. which occurred at Yarmouth on Thursday, but on the same day Colly Weston had 1.9 ins., and the snow and rain yielded an inch or more in most parts of central and southern England.

Bright Sunshine exceeded the mean over the Kingdom as a whole. The percentage of the possible duration ranged from 41 in Ireland N., and from 30 in Ireland S. to 25 in England E., and to 14 in Scotland N. and the Channel Islands.

Barometer and Wind.—During the earlier half of the week cyclonic disturbances travelled in an easterly direction over us. South-Westerly and Westerly winds were consequently very prevalent, and as the gradients were sometimes steep they blew freshly or strongly, or even with the force of a gale. After Wednesday, however, a complete change took place. A deep disturbance had advanced quickly to the Bristol Channel and our south-western coasts during the night, and during the remainder of the week the system moved slowly in an irregular easterly direction over the English Channel and our southern counties. It caused strong gales from various directions over all our southern districts. They were mainly from East or North-East in the eastern and central counties, and from South and South-West and subsequently from North on the Channel coasts. It was this disturbance which brought the heavy rain and snow noted above.

NOTICE.—Owing to the Christmas Holidays the next issue of the "Weekly Weather Report" will not appear until Saturday, December 28th.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	40	26	37·4	31·4	34·5	− 5·5	0	53	7	1·16	+ 0·14	*	*	*	*
	Stornoway	43	29	40·1	31·7	36·1	− 3·9	0	41	7	1·64	+ 0·36	5·3	− 0·7	12	− 1
	Wick	40	23	37·6	28·0	33·0	− 5·7	0	63	6	0·61	− 0·12	*	*	*	*
	Lairg §S	42	12	37·3	25·2	31·5	− 4·1	0	74	7	0·99	+ 0·09	*	*	*	*
	Glencarron §S	41	22	36·4	28·6	32·7	− 4·8	0	65	6	1·40	− 0·88	*	*	*	*
	Fort Augustus §S	43	18	36·5	27·6	32·2	− 6·7	0	69	6	1·62	+ 0·44	3·3	+ 1·1	7	+ 2
	Fort William §S	45	27	39·2	32·5	36·0	− 4·1	0	42	6	0·94	− 1·26	5·0	+ 2·0	11	+ 4
1. SCOTLAND, E.	Nairn	39	17	37·3	28·0	32·8	− 5·4	0	64	7	1·70	+ 1·20	*	*	*	*
	Aberdeen	43	28	37·9	31·6	34·9	− 3·7	0	50	7	0·43	− 0·31	26·9	+11·9	45	+26
	Braemar §S	39	12	34·2	22·9	28·8	− 6·4	0	92	5	1·08	+ 0·31	*	*	*	*
	Ochtertyre §S	41	24	38·6	28·7	33·9	− 4·0	0	57	3	0·38	− 0·62	*	*	*	*
	Leith	44	24	39·3	31·0	35·3	− 4·8	0	47	6	1·18	+ 0·74	*	*	*	*
	Marchmont §S	43	25	37·9	28·4	33·3	− 4·1	0	61	4	0·76	+ 0·05	5·3	− 2·3	11	− 5
2. ENGLAND, N.E.	Alnwick Castle	45	23	39·7	31·7	35·9	− 3·1	0	43	4	1·03	+ 0·32	*	*	*	*
	Durham	53	26	40·8	32·3	36·7	− 1·8	0	37	4	0·79	+ 0·19	13·4	+ 3·6	27	+ 7
	Shields	46	28	40·0	33·6	36·9	− 2·9	0	36	4	0·66	+ 0·12	*	*	*	*
	Scarborough M	54	27	42·9	33·9	38·6	− 1·2	3	30	5	1·50	+ 0·87	8·7	—	17	—
	Spurn Head	50	33	42·3	36·6	39·6	− 0·8	1	20	6	2·56	+ 2·09	*	*	*	*
	Fulbeck (Lincolnshire)	49	30	40·5	34·5	37·6	− 0·4	0	31	6	2·38	+ 1·92	*	*	*	*
3. ENGLAND, E.	Hillington M	54	28	43·1	33·6	38·5	− 0·1	3	31	6	2·46	+ 1·89	10·9	+ 1·3	21	+ 2
	Yarmouth	54	31	44·0	36·6	40·5	+ 1·2	6	22	5	3·24	+ 2·67	*	*	*	*
	Geldeston	56	29	44·4	35·0	39·9	+ 0·3	7	28	5	2·57	+ 2·05	12·7	+ 1·2	24	+ 3
	Cambridge	55	30	45·4	35·5	40·7	+ 1·7	10	27	4	0·95	+ 0·53	11·4	+ 1·8	22	+ 4
	Felixstowe	54	32	44·4	37·9	41·3	+ 1·2	7	17	4	1·71	—	17·3†	− †	33†	− †
	Rothamsted	54	28	44·0	36·2	40·3	+ 1·3	6	23	6	1·66	+ 1·09	9·7	− 0·5	18	− 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	29	40·4	35·3	38·0	− 0·7	0	28	6	2·06	+ 1·58	*	*	*	*
	Loughborough	54	32	42·6	36·3	39·6	+ 0·6	2	21	7	2·22	+ 1·68	*	*	*	*
	Colly Weston (Stamford)	55	30	43·9	35·6	39·9	+ 1·9	5	25	7	2·22	—	*	*	*	*
	Cheadle M	54	31	40·2	32·8	36·7	− 1·1	0	37	6	1·44	+ 0·71	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	53	30	40·9	34·1	37·6	− 2·0	0	31	6	1·37	+ 0·84	4·4	—	8	—
	Churchstoke M	54	31	41·2	33·8	37·7	− 1·5	0	30	6	1·54	+ 0·81	7·5	− 1·8	14	− 4
	Hereford (Belmont) M	52	31	41·3	35·3	38·6	− 1·2	0	24	6	1·28	+ 0·72	*	*	*	*
	Cirencester	53	30	42·9	35·6	39·4	+ 0·7	3	24	5	1·60	+ 0·95	10·2	+ 0·6	19	+ 1
	Oxford	54	32	44·4	37·1	40·9	+ 1·3	7	20	6	1·52	+ 1·04	11·4	+ 1·6	22	+ 4
5. ENGLAND, S	London	55	32	45·0	38·3	41·8	+ 1·6	8	16	7	1·30	+ 0·80	4·4†	− 0·8†	8†	− 2†
	Swarraton (Alresford) M	53	29	44·3	37·8	41·2	+ 2·2	6	17	5	1·99	+ 1·29	*	*	*	*
	Dungeness	52	32	45·7	39·0	42·5	+ 0·7	16	8	6	1·85	+ 1·35	7·0	—	13	—
	Hastings (St. Leonards)	53	33	46·5	37·5	42·2	+ 0·5	20	13	7	1·50	+ 0·83	11·4	− 2·1	21	− 4
	Southampton	54	33	47·9	38·2	43·2	+ 1·6	24	11	6	1·69	+ 0·95	9·9	− 1·6	18	− 3
	Portland Bill	53	38	47·0	42·4	44·8	+ 1·9	20	0	6	1·08	—	*	*	*	*
	Shaftesbury M	52	33	43·1	36·3	39·8	+ 1·6	3	21	6	2·37	+ 1·64	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	25	40·5	30·9	35·9	− 5·5	0	43	5	1·12	− 1·02	*	*	*	*
	Glasgow	45	24	38·8	31·6	35·3	− 4·2	0	47	4	0·64	− 0·32	8·4	+ 4·2	18	+10
	Glenlee §S															
	Douglas (Isle of Man)	54	31	43·4	34·8	39·3	− 3·1	4	28	6	0·82	− 0·25	18·7	+ 9·7	37	+18
7. ENGLAND, N.W.	Newton Reigny	44	20	38·0	30·3	34·3	− 4·5	0	54	5	1·34	—	9·5	—	19	—
	Stonyhurst	52	28	40·7	33·7	37·3	− 1·7	0	33	7	1·32	+ 0·22	10·0	+ 3·7	20	+ 7
	Blackpool M	49	31	43·3	35·9	39·8	− 0·4	4	24	6	0·62	− 0·12	12·1	+ 5·8	24	+12
	Manchester (Prestwich)	53	31	41·5	34·3	38·0	− 1·2	0	28	6	1·40	+ 0·54	6·7	—	13	—
	Liverpool Obsy. (Bidston)	49	32	42·9	36·7	39·9	− 1·1	3	20	6	1·04	+ 0·43	6·5	—	13	—
	Chester (Hawarden Bridge)	48	33	42·1	37·4	39·8	− 2·0	0	17	3	0·54	—	*	*	*	*
	Llandudno M	55	35	44·3	38·5	41·5	− 1·2	6	15	6	1·09	+ 0·36	7·1	− 1·4	14	− 1
	Holyhead	49	35	43·6	38·9	41·3	− 2·6	4	12	3	0·61	− 0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	31	41·7	37·4	39·6	− 0·2	0	17	6	1·16	− 0·10	*	*	*	*
	Pembroke	52	33	46·0	38·6	42·5	− 2·3	18	10	7	1·03	+ 0·08	3·4	− 7·4	6	−14
	Clifton	54	33	44·6	38·3	41·6	+ 0·8	7	16	5	1·35	+ 0·59	*	*	*	*
	Bath	55	31	46·1	38·0	42·2	+ 1·7	18	11	5	1·52	—	10·4	—	19	—
	Arlington (N. Devon)	52	32	44·3	37·1	40·8	− 0·4	6	19	6	4·00	+ 2·57	*	*	*	*
	Cullompton M	55	33	47·0	38·7	43·0	+ 3·0	21	9	6	2·72	+ 1·87	8·0	− 1·2	15	− 2
	Falmouth	54	38	47·0	40·8	44·0	− 1·3	19	3	6	1·93	+ 0·67	8·8	− 4·2	16	− 7
	Plymouth	54	37	48·0	40·4	44·4	+ 0·6	24	4	5	1·83	+ 0·89	10·6	− 1·3	19	− 2
9. IRELAND, N.	Malin Head	44	33	42·9	36·4	39·8	− 2·7	3	21	5	0·93	—	*	*	*	*
	Edenfel (Omagh)	42	28	38·6	32·0	35·4	− 3·2	0	46	3	0·79	− 0·08	*	*	*	*
	Blacksod Point	46	34	43·4	38·1	40·9	− 3·7	4	16	7	1·03	—	*	*	*	*
	Markree Castle	49	30	42·1	32·7	37·6	− 2·4	0	34	4	1·05	+ 0·09	21·0	+12·7	41	+25
	Armagh	47	29	39·8	32·0	36·1	− 3·5	0	41	3	0·74	+ 0·07	21·1	+12·4	41	+23
	Donaghadee	45	32	41·4	35·9	38·8	− 3·1	0	22	5	1·14	+ 0·47	*	*	*	*
10. IRELAND, S.	Dublin	56	33	43·1	35·5	39·5	− 2·9	3	25	4	0·50	− 0·05	12·4	− 0·1	24	0
	Parsonstown	46	32	40·0	35·0	37·6	− 3·0	0	31	4	0·67	− 0·07	22·2	+11·7	43	+23
	Kilkenny	48	30	40·9	35·0	38·1	− 3·3	0	27	5	0·91	+ 0·16	*	*	*	*
	Roche's Point	50	33	43·7	38·6	41·3	− 3·5	5	14	5	2·02	+ 0·79	*	*	*	*
	Valencia	51	34	45·6	41·1	43·4	− 2·3	14	3	6	1·46	+ 0·03	13·2	+ 3·1	25	+ 6
	Killarney		32		36·7					6	2·40	+ 0·75	*	*	*	*
	Foynes	50	33	42·0	36·2	39·2	− 3·4	0	20	4	1·07	+ 0·02	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	49·4	44·3	47·0	− 0·7	35	0	7	3·39	+ 2·44	5·6	—	10	—
	Jersey	55	38	50·1	44·4	47·4	+ 2·5	38	0	7	2·02	+ 1·13	10·7	− 3·7	19	− 7

Stations marked M are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

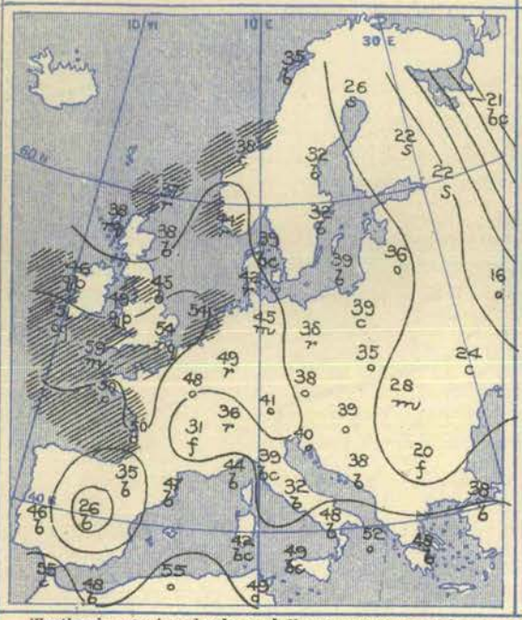
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Note.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 8th December.

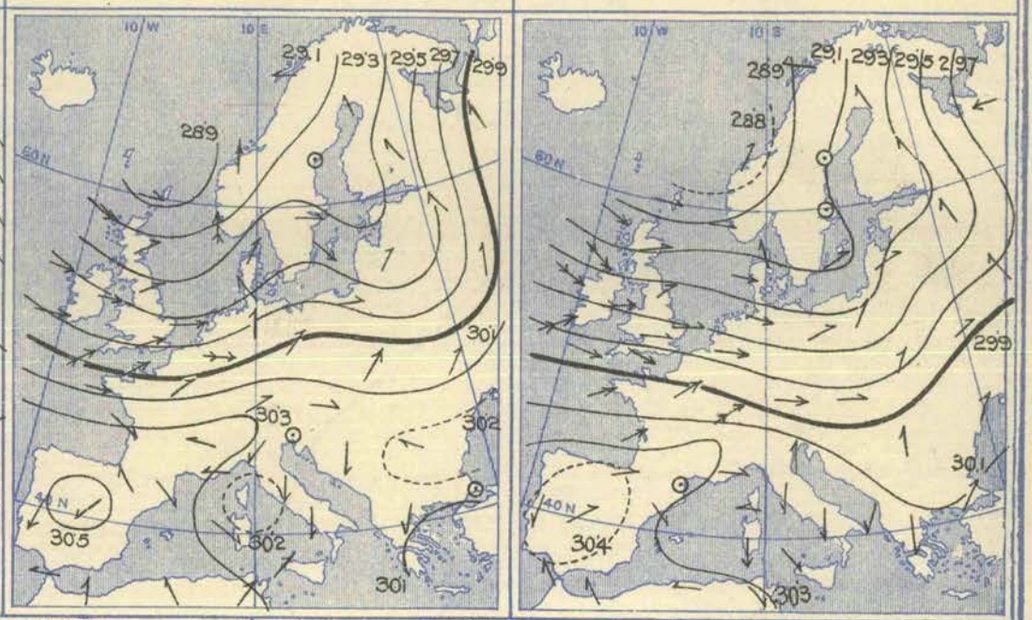
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over western, northern and central Europe generally, but fine at most of the Swedish stations; rain falling in many parts of Great Britain and Germany, as well as at Skudesnaes and Fanö, and snow in Lapland and Finland. Fine over the whole of the southern countries. Sky clearing later over eastern and central England, but rain falling over western and central Europe generally, and hail or sleet at many of our own western and northern stations; thunderstorms, or lightning only, occurring in Ireland and the northern parts of England.

Temperature fallen in our Islands, Scandinavia and northern Russia, as well as in Italy, but risen elsewhere. Morning readings highest, (1) 55° at San Fernando and Algiers, and 52° at Brindisi; (2) 54° in London and at Bath and Jersey; above 50° at most of our own central and southern stations. Lowest, – 21° Fahr. at Archangel, + 15° at Kharkhov, 16° at Moscow and 20° at Hermanstadt. Rising later to 50° and upwards in most parts of England and Ireland, and to 55° in London and at Jersey, but not reaching 40° in the north of Scotland. Exceeding 55° in many parts of southern Europe, and reaching 64° at San Fernando.

Barometer and Wind. 8 a.m. and 6 p.m.

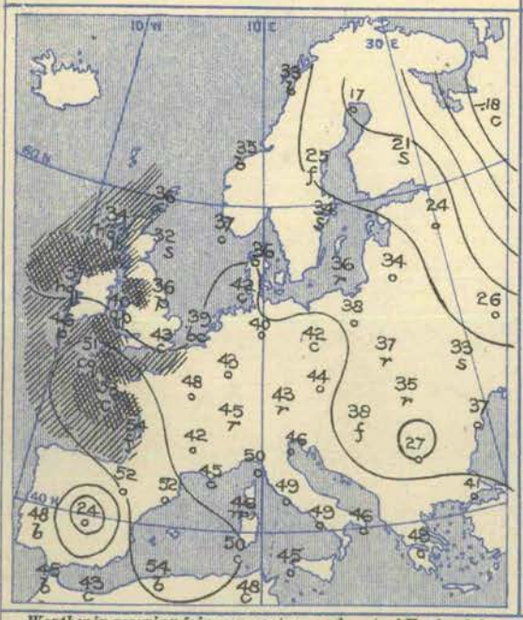


Wind Westerly or South-Westerly over western and central Europe generally and strong to a gale in force over England and the neighbouring parts of the Continent; Southerly in the west of Norway, with a gale at Skudesnaes: light from the South-Eastward over northern Russia; North-Easterly or Easterly in Spain; variable in the south of France; rather variable over Italy, but chiefly Northerly. Subsequently increasing to a gale from the Westward or South-Westward in Ireland; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over central Spain; 30·2 ins. and upwards in an anticyclone lying over nearly the whole of Spain, France and Italy, and also in another system over the extreme south of Russia. Lowest, 28·9 ins. and less in a large cyclonic disturbance with its centre a little to the northward of the Shetlands. Low pressure system moving slowly north-eastwards later, but small secondary disturbances passing eastwards across the United Kingdom and the North Sea.

Monday, 9th December.

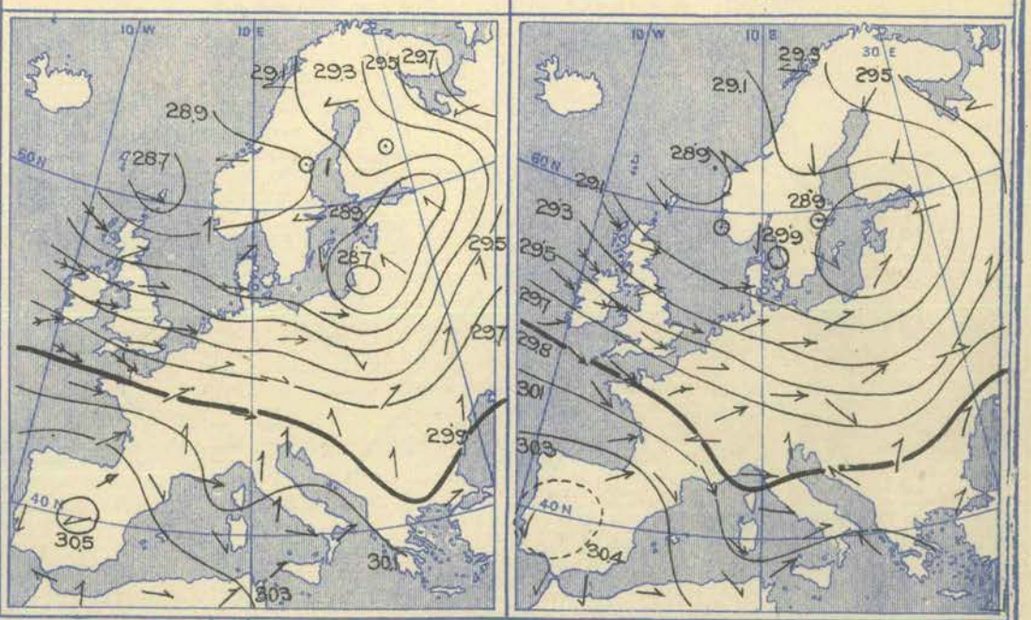
Temperature and Weather. 8 a.m.



Weather in morning fair over eastern and central England, but cloudy or dull in nearly all other parts of Europe, with showers on our own western and southern coasts, and with snow over nearly the whole of Scotland. Snow falling also in several parts of Sweden and Russia, and rain at Belfort, Munich and Lemberg. Fine on the west coast of Norway. Snow, hail or sleet falling later over nearly the whole of north-western Europe, and rain in Germany; thunder and lightning occurring in the north of England, and lightning in many other parts of the United Kingdom.

Temperature fallen in our Islands and the northern parts of the Continent, but risen elsewhere. Morning readings highest, (1) 54° at Algiers, 52° at Barcelona and 50° at Perpignan and Cagliari; (2) 52° at Jersey and 51° at Scilly; above 45° on several parts of our own southern coasts. Lowest, – 18° Fahr. at Archangel, + 17° at Haparanda and 20° at Uleaborg; below the freezing point in most parts of Sweden and Russia. Rising during day to 45° and upwards at most of our own southern and south-western stations, and to 52° at Scilly and Jersey; exceeding 55° in most parts of southern Europe.

Barometer and Wind. 8 a.m. and 6 p.m.

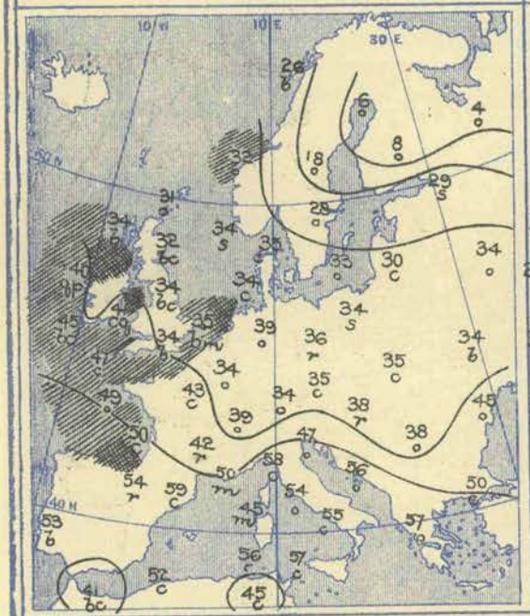


Wind Westerly over nearly the whole of western and central Europe, and strong to a gale in force in many places; light from the Southward or South-Eastward over the central and southern parts of Russia, and from the Eastward in Scandinavia. Southerly in Italy and Austria; South-Easterly or Easterly in Greece; Easterly or North-Easterly over the Spanish Peninsula. No important change occurring during day.

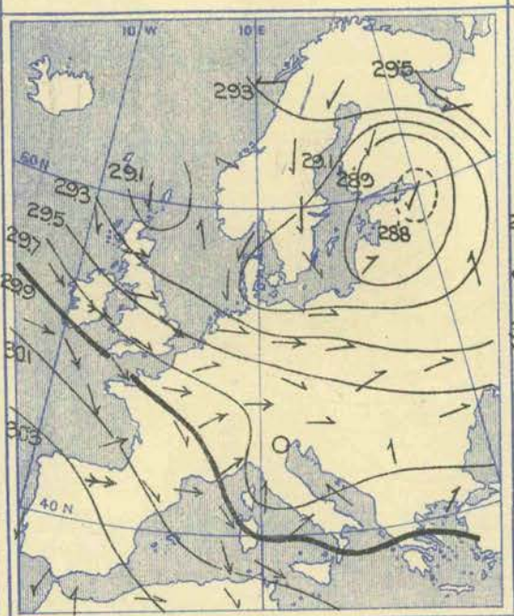
Barometer highest, 30·5 ins. and upwards over central Spain, 30·2 ins. and upwards in an anticyclone covering the whole of Spain, the south-west of France and the western parts of the Mediterranean. Lowest, 28·7 ins. and less in two cyclonic centres, one lying a little to the northward of the Shetlands, and the other over the Baltic provinces. Both disturbances moving eastwards during day and partially filling up; small secondary systems travelling across our Islands and the North Sea.

Tuesday, 10th December.

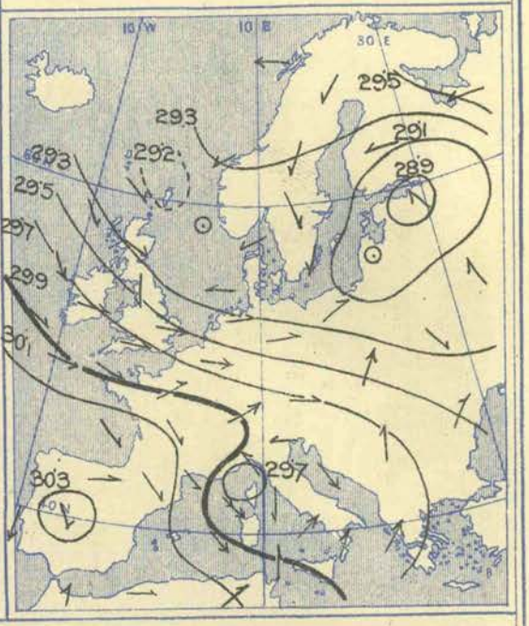
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the south and east of our Islands, but cloudy or dull in all other parts of Europe, with snow showers at several of our own northern stations; snow falling also in several parts of Russia and the south of Scandinavia, and rain at Berlin, Vienna, Lyons, Biarritz and Bilbao. Snow, hail or sleet falling later in many parts of northern and north-western Europe, and considerable amounts of rain over western and central France—as much as 1·5 ins. at Le Mans.

Temperature fallen in all but the southern countries. Morning readings highest, 59° at Perpignan, 58° at Leghorn, and 57° at Athens, Patras and Palermo; above 50° over southern Europe generally. Lowest, 4° at Archangel, 6° at Uleaborg, and 8° at Kuopio; below the freezing point in most parts of northern Europe, and also in the north of Scotland. Remaining below 40° all day in the northern parts of the United Kingdom, but rising to between 45° and 50° on our south-west coasts; exceeding 55° over southern Europe generally, and reaching 63° at Perpignan and 64° at Palermo.

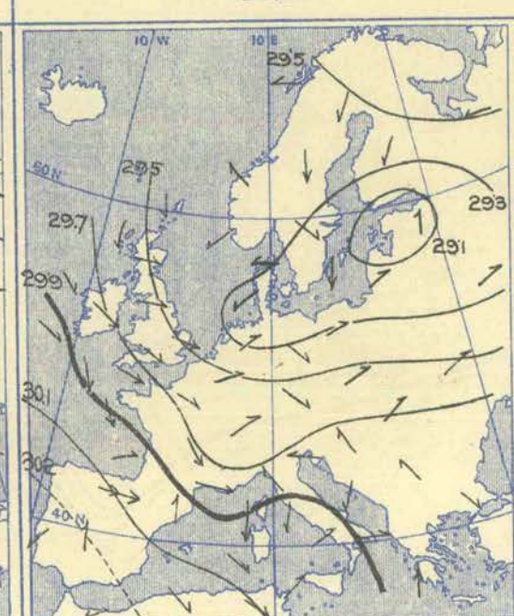
Wind Westerly or North-Westerly over nearly the whole of western and central Europe, and strong in force on many parts of our own and the French coasts, with a gale over the Irish Sea and the north of Ireland. Northerly or North-Easterly over Sweden, Denmark and northern Russia; Easterly or South-Easterly in the west of Norway; South-Westerly or Southerly in Greece and Italy; Northerly or North-Easterly over the Spanish Peninsula. No decided change occurring during day.

Barometer highest, 30·3 ins. and upwards, in an anticyclone lying over Algeria and the Spanish Peninsula. Lowest, 28·8 ins. and less, in a cyclonic area with its centre near St. Petersburg; 29·1 ins. and less in another system lying between the Shetlands and the Norwegian coasts. Both disturbances remaining almost stationary during day, but new depression appearing over the Gulf of Genoa.

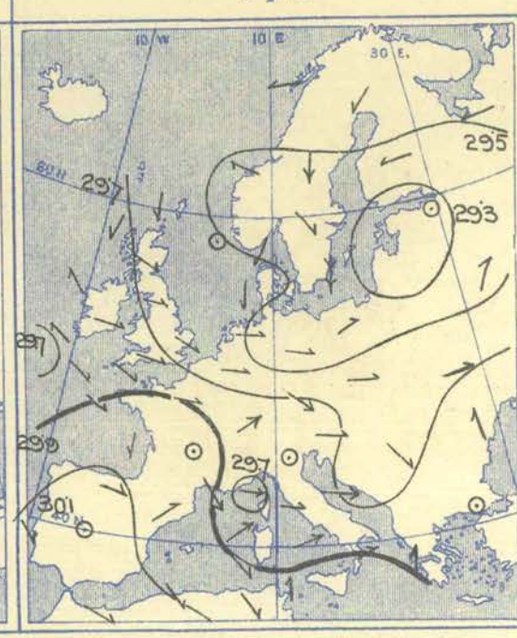
Wednesday, 11th December.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over England and the greater part of France and southern Europe. Cloudy or dull elsewhere, with showers of rain or hail in Ireland and the north of Scotland; rain falling also at Biarritz and Munich, and snow in several parts of Sweden and northern Russia, as well as at Neufahrwasser and Belfort. Heavy rain falling later in the south-west of our Islands (as much as 1·7 ins. at Roche's Point), and smaller quantities in France. Snow or sleet showers reported in the north and east of our Islands.

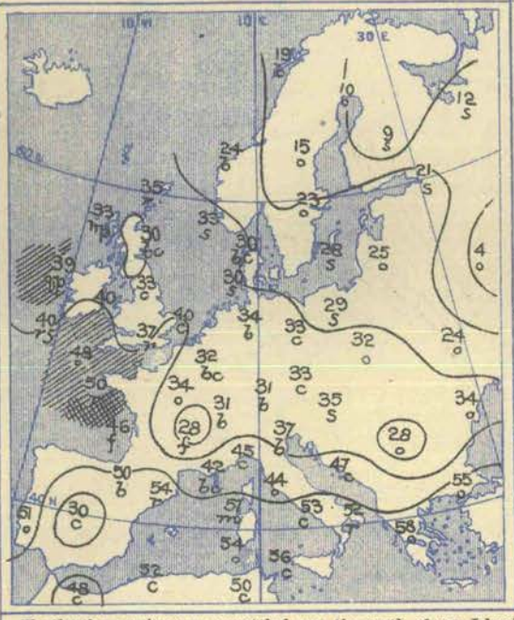
Temperature risen slightly in the northern and central parts of the United Kingdom, but fallen in nearly all other parts of Europe. Morning readings highest, 59° at Patras, 58° at Athens and Palermo, and 56° at Biarritz and Bilbao; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, − 1° Fahr. at Archangel, + 9° at Kuopio and 12° at Haparanda. Below the freezing point over northern, eastern and central Europe generally, and also in the extreme north of Scotland. Daily maxima below 45° in all but the south-western parts of the United Kingdom, and below 40° at many of our northern stations. Thermometer exceeding 55° in many parts of southern Europe.

Wind North-Westerly in the west and south of our Islands, and also over the greater part of France, and strong in force at several of the more exposed stations; light to fresh from the Westward on the east coasts of Great Britain; South-Westerly in Germany. Northerly in Sweden and Finland; Easterly in the west of Norway; variable in Spain and Italy. Subsequently falling light in our Islands, and shifting to the South-Eastward in the west of Ireland.

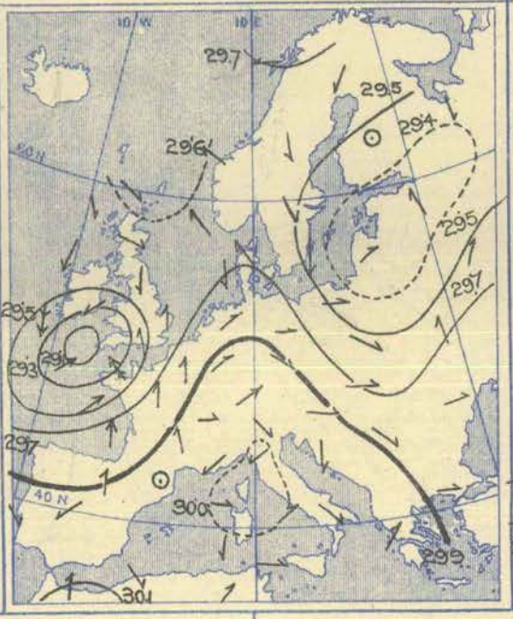
Barometer highest, 30·2 ins. and upwards to 30·1 ins., in an anticyclone lying over Algeria and the Spanish Peninsula. Lowest, 29·1 ins. and less in a cyclonic area over the Baltic provinces and the Gulf of Finland; 29·3 ins. and less in a subsidiary hollow over Denmark and the Baltic. Depressions, both main and secondary, partially filling up later; new and deep disturbance approaching our own south-west coasts in evening from the westward.

Thursday, 12th December.

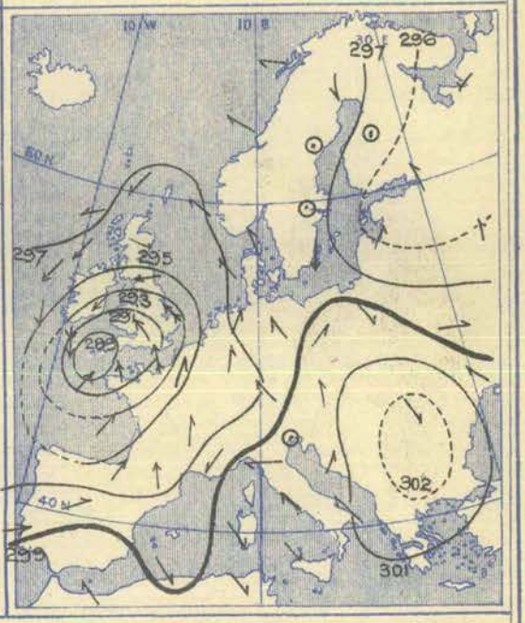
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over the south of our Islands, with rain or sleet in many places; fine in most other parts of western and central Europe, but rain falling at Sumburgh Head and snow at Skudesnaes and Fanö. Cloudy or dull over Sweden, Russia, and the greater part of southern Europe; rain falling at Barcelona and Brindisi and snow in many parts of northern Russia. Heavy falls of rain or sleet occurring later over the southern half of England and heavy snowstorms in the north—more than an inch of rain measured next morning at many English stations, and as much as 2·5 ins. at Yarmouth.

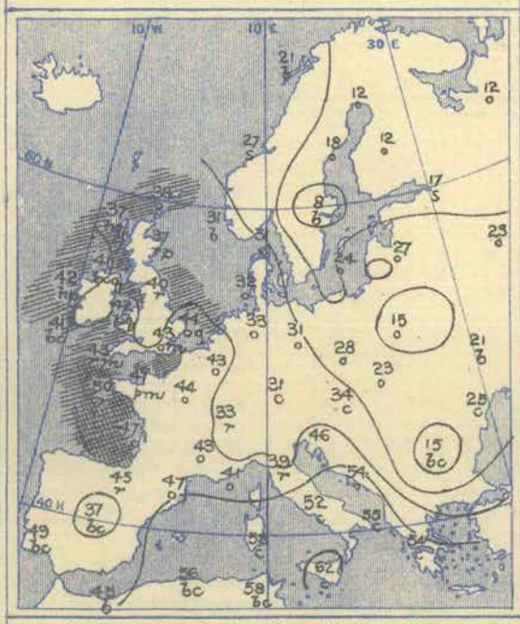
Temperature risen in the south and east of England and also in Sweden; fallen in most other parts of Europe. Morning readings highest, 58° at Athens, and 57° at Patras and Sanguinaire; above 50° at many of the Mediterranean and Spanish coast stations, and very little below it over the western parts of the English Channel. Lowest, 4° at Moscow, 9° at Kuopio and 10° at Haparanda and Karlstad; below the freezing point over northern and eastern Europe generally. Rising later to 51° at some of our Channel stations, to 54° in the west of France, 60° at Perpignan, 67° at Palermo, and to 70° at La Calle.

Wind strong from the Southward or South-Westward in the west of France, and from the South-Eastward at most of the English Channel stations; Easterly over Wales and central England; strong to a gale from the North-Eastward or Northward in Ireland. North-Westerly in the north of Scotland, but South-Easterly or Easterly in the west of Norway. Northerly in Sweden and Denmark; Westerly in Germany and Austria; Southerly over central Russia and also in Greece. Variable in Italy. Strong gale from the Southward blowing later on our south-east coasts, from the Eastward in the north of England, and from the Northward in the western parts of our Islands.

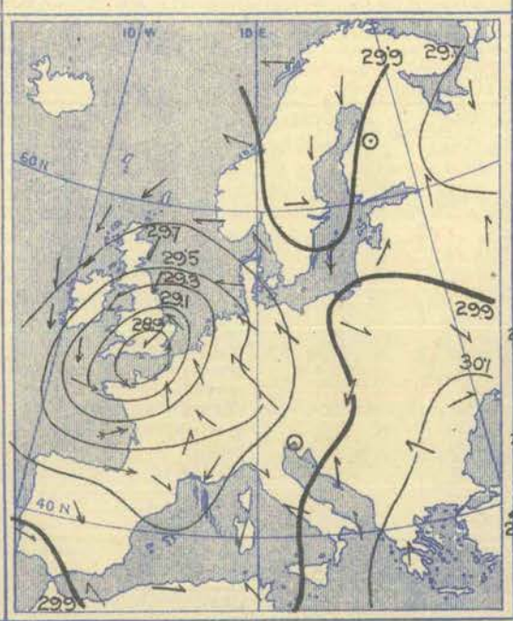
Barometer highest, 30·0 ins. and upwards, over the Mediterranean, and several parts of southern Europe. Lowest, 29·1 ins. and less, in a deep cyclonic system with its centre near the mouth of the Bristol Channel: 29·4 ins. and less in a large shallow area over northern Russia. Centre of former disturbance subsequently moving south-eastwards across Cornwall and eastwards along the English Channel; barometer falling rapidly in the south of England.

Friday, 13th December.

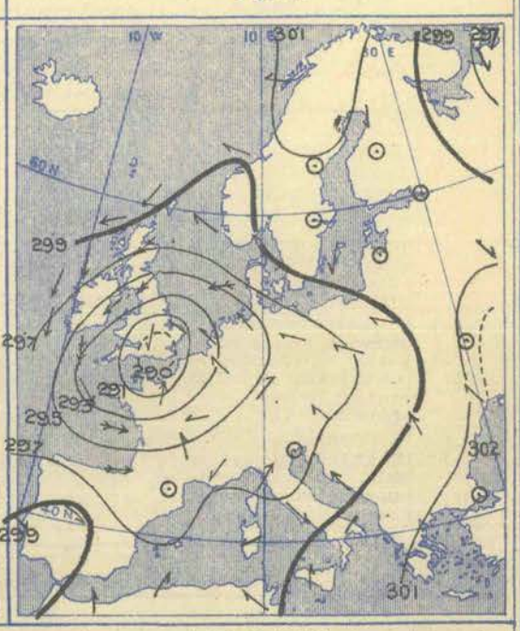
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled over Europe as a whole, with rain in many parts of Great Britain and France; sleet showers reported at Aberdeen and snow at Christiansund and St. Petersburg. Fine in Ireland and fair over the Spanish Peninsula and southern Italy. Rain falling later over nearly the whole of western and southern and many parts of central Europe; amount large in places (as much as 1·6 ins. at Florence and 0·9 in. at Scilly); lightning seen at night at Blacksod Point and Jersey.

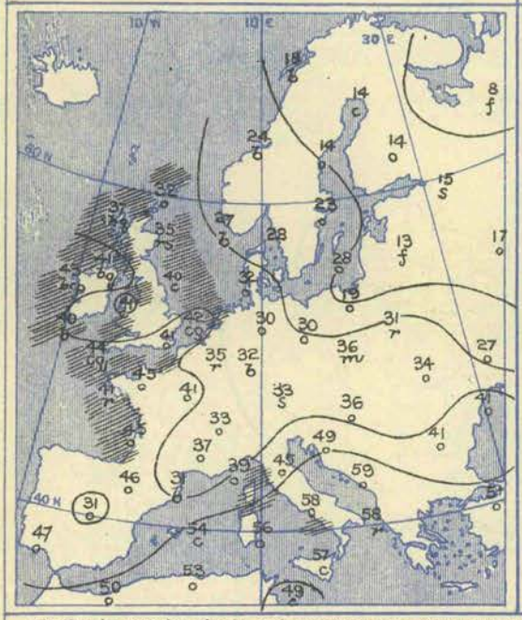
Temperature risen generally, but fallen at the English Channel stations and also over the Baltic and eastern Germany. Morning readings highest, 62° at Palermo and 58° at Sanguinaire, Cagliari and La Calle; above 50° at most of the Mediterranean and Adriatic stations. Lowest, 3° Fahr. at Karlstad, 8° at Stockholm and 12° at Haparanda, Archangel and Kuopio; below the freezing point over northern and eastern Europe generally and very little above it at some of our own central stations. Remaining below 45° all day at all but our extreme southern stations and below 40° at some places in the north of Scotland. Exceeding 55° in many parts of southern Europe and reaching 76° at Palermo.

Wind Northerly or North-Easterly over the greater part of the United Kingdom, and strong to a gale in force on our western coasts; blowing a gale from the Westward or North-Westward in the west of France and moderate to strong from the latter quarter in Spain. South-Easterly over Germany, the Netherlands and the east of England; Easterly in Denmark and Norway. Northerly in Sweden; variable over Russia, Austria and Italy. Subsequently increasing to a gale from the North-Eastward on our north-east coasts.

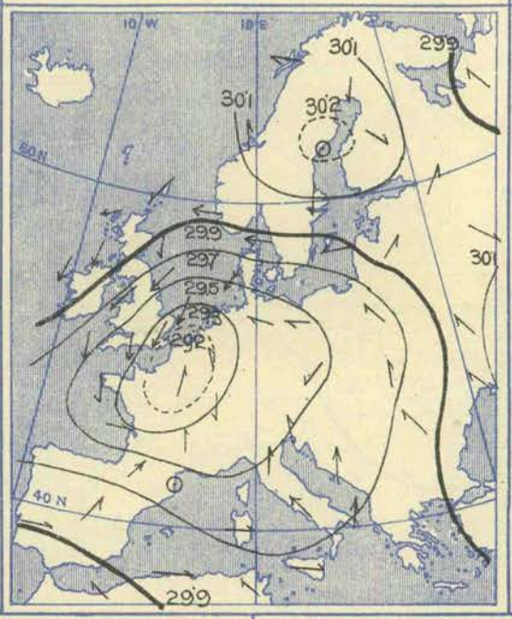
Barometer highest, 30·1 ins. and upwards, in an anticyclone lying over Greece, Turkey, and the Black Sea. Lowest, 28·9 ins. and less in a deep cyclonic disturbance with its centre over the eastern part of the English Channel; gradients steep over western Europe generally. Latter system moving very slowly eastwards during day and beginning to disperse; barometer rising over the whole of the United Kingdom.

Saturday, 14th December.

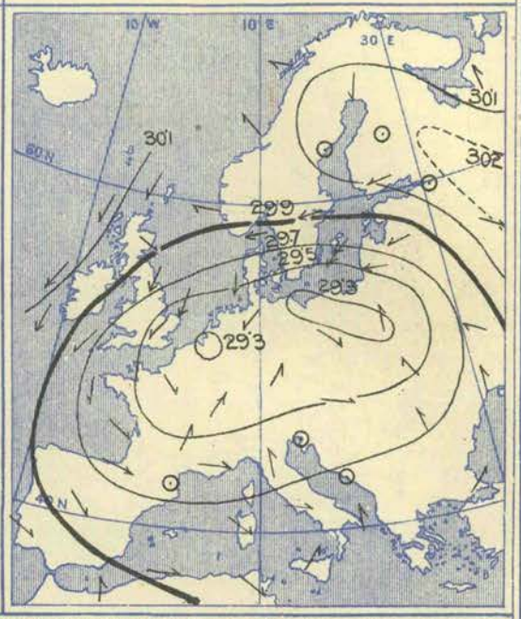
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled over Great Britain and the major part of the Continent, with rain in many parts of England, the Netherlands and France, as well as at Warsaw and Palermo; sleet showers falling at Aberdeen, and snow at St. Petersburg, Karlstad and Munich. Fine in Ireland and also in the west of Norway. Weather improving later in Scotland and the north of England, but rain, sleet or snow falling in most other parts of Europe.

Temperature scarcely changed over England, fallen in most of the other western countries. Morning readings highest, 59° at Lésina, 58° at Naples and Brindisi, and 57° at Palermo; above 50° at most of the Mediterranean and Adriatic stations. Lowest, 8° at Archangel, 12° at Helsingfors, and 14° at Haparanda, Hernösand and Kuopio; below the freezing point over northern and eastern Europe generally, and very little above it at some of our own northern stations. Daily maxima below 40° in many parts of Great Britain and also over central Ireland. Thermometer exceeding 55° in Italy and the south of Spain, and reaching 65° at Pesaro.

Wind Northerly or North-Easterly over our Islands and the north of France, with a moderate to fresh gale on many parts of the English and Irish coasts; South-Westerly or Southerly over central and southern France. South-Easterly or Easterly in Germany; Easterly to Northerly in Denmark and the south of Scandinavia, with a gale at Faroe. Variable over northern and central Russia, and also in Italy; Westerly over the Spanish Peninsula and the Mediterranean; moderating later on the Irish coasts, but continuing to blow hard over England.

Barometer highest, 30·2 ins. and upwards to 30·1 ins. in an anticyclone covering the greater part of Russia and Scandinavia; 29·9 ins. and upwards over Algeria and the south of Spain. Lowest, 29·2 ins. and less in a well-marked cyclonic system with its centre over the north-east of France. Latter system subsequently moving slowly eastwards and partially filling up; new disturbance forming over eastern Germany and spreading northwards.

GENERAL NOTES.

During the early part of the week, when barometrical pressure was highest over southern Europe and the Mediterranean, the weather in the northern and north-western countries was influenced by a series of large cyclonic systems the centres of which appeared off the Norwegian coasts. Smaller disturbances of a secondary nature were at the same time developed over Sweden and the Baltic, whence they moved eastwards across western and northern Russia, the primary systems in the meantime remaining almost stationary. With these conditions strong South-Westerly to Westerly winds were reported over northern and north-western Europe generally, with gales in many places, but moderate Easterly breezes in the north of Scandinavia. The weather was in a very changeable state generally, with rain in all the more southern districts and with snow or hail in the north.

After the 10th a rather decided change took place, the barometer rising steadily in all the more northern parts of Europe and an anticyclone appearing gradually over Scandinavia and northern Russia. Over our Islands and the neighbouring portions of the Continent the weather was, however, affected seriously by a new cyclonic disturbance, which advanced to our south-west coasts on the night of the 11th, the centre of the system afterwards moving slowly eastwards along the English Channel, and across Belgium to Germany, where the disturbance rapidly dispersed at the close of the week. During its progress strong gales were experienced on nearly all our coasts—from various directions as the system advanced, but from the northward and north-eastward in its rear; with very heavy rain over eastern and central England, and with snowstorms in many of our northern districts. The dispersal of the system on the night of the 14th was accompanied by the development of a new disturbance over eastern Germany, the latter system afterwards spreading northwards over the Baltic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	10·9	+ 4·6	26	+12	BRIGHTON	11·3	- 0·7	20	- 2
STRATHPEFFER SPA	6·6	- 0·8	15	- 1	WORTHING	12·7	—	23	—
EDINBURGH	4·1	- 1·3	9	- 3	BOGNOR	*	—	*	—
MORPETH	15·2	—	30	—	WATERGATE (Emsworth)	13·0	—	24	—
NEWCASTLE-ON-TYNE	8·4	—	17	—	WESTBOURNE (Emsworth)	11·3*	- 0·6	21*	- 1
OSWALDKIRK (Yorkshire)	11·8	+ 3·8	23	+ 8	VENTNOR HOSPITAL	10·6	- 0·9	19	- 2
YORK	10·0	+ 3·7	20	+ 9	BOURNEMOUTH	10·5	—	19	—
LOWESTOFT	12·0	—	23	—	SOUTHPORT	10·0	—	20	—
HOLLESLEY BAY	17·3	—	33	—	RHYL	*	—	*	—
SHEFFIELD		—		—	COLWYN BAY	9·0	—	17	—
WORKSOP	7·0	- 0·4	13	- 1	ABERDOVEY	11·5*	—	22*	—
THURCASTON (Leicestershire)	10·4	+ 2·9	20	+ 6	TENBY	9·3	- 1·0	18	- 1
MARGATE	—	—	—	—	NEWQUAY				
BROADSTAIRS		—		—	TORQUAY	10·2	- 2·1	18	- 4
EASTBOURNE	12·3	- 0·4	22	- 1	CAHIR (Duneske)	14·4*	—	27*	—
					GUERNSEY	7·4*	- 3·3	13*	- 6

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Sept. 28th, 1901	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	38·8	—	47	—
" " Oct. 5th, "	Ochtertyre	66	38	59·4	44·6	51·8	+ 2·5	69	0	7	1·01	+ 0·12	—	—	—	—
" " " " "	Churchstoke	66	36	60·6	45·2	52·7	+ 2·9	75	0	5	1·12	+ 0·40	11·3	-14·7	14	-19

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 51. | *Third Series.*

WEEK ENDING SATURDAY, DECEMBER 21ST, 1901.

[*Price 6d.*
Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 302.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	20	38·3	29·1	33·9	4 below	0	− 7	57	+27	2386	+370	813	+ 42
	1. SCOTLAND, EAST	43	10	36·5	27·1	32·0	5 below	0	− 7	70	+33	2527	+164	981	+112
	2. ENGLAND, N.E.	42	20	36·6	29·3	33·1	5 below	0	− 9	62	+31	2856	+255	730	+ 43
	3. ENGLAND, EAST	41	20	37·1	27·8	32·6	6 below	0	−10	66	+31	3139	+129	776	+ 21
	4. MIDLAND COUNTIES	41	12	36·5	26·5	31·7	6 below	0	−10	72	+36	3075	+128	848	+ 67
	5. ENGLAND, SOUTH	45	21	39·1	29·2	34·4	6 below	0	−15	53	+28	3328	− 6	602	+ 60
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	45	25	39·7	30·2	35·1	5 below	0	−12	48	+25	2686	+133	648	+ 65
	7. ENGLAND, N.W.	44	20	38·1	30·1	34·3	6 below	0	−13	54	+31	2966	+160	606	+ 66
	8. ENGLAND, S.W.	47	19	41·1	30·2	35·9	5 below	0	−20	43	+26	3273	+132	519	+107
	9. IRELAND, NORTH	47	20	41·6	32·0	37·0	4 below	0	−15	35	+13	2702	− 4	488	− 13
	10. IRELAND, SOUTH	48	23	41·7	31·2	36·7	6 below	0	−23	37	+20	3124	+ 7	422	+ 53
	—CHANNEL ISLANDS	53	31	45·6	36·5	41·2	4 below	10	−22	23	+19	3870	+117	188	+ 47

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 296.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	4 less	231	+ 6	43·3	− 6·1	5	+ 1	12	+ 2	1267	+157	29	+ 4
	1. SCOTLAND, EAST	4	8	1 more	193	+ 1	27·2	− 3·9	4	− 3	8	− 7	1455	+167	33	+ 3
	2. ENGLAND, N.E.	5	8	3 more	164	−15	24·0	− 1·3	3	− 3	6	− 5	1528	+237	35	+ 6
	3. ENGLAND, EAST	3	1	4 less	153	−28	19·6	− 5·3	17	+ 5	32	+ 9	1808	+169	39	+ 4
	4. MIDLAND COUNTIES	3	2	4 less	150	−21	24·6	− 3·0	10	+ 1	18	+ 1	1479	+146	35	+ 3
	5. ENGLAND, SOUTH	2	2	4 less	141	−28	22·8	− 5·3	25	+12	46	+26	1858	+198	42	+ 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	6 less	204	− 5	48·5	− 3·2	7	+ 1	15	+ 2	1526	+192	35	+ 4
	7. ENGLAND, N.W.	4	6	2 less	179	−10	29·0	− 5·8	12	+ 5	23	+11	1676	+289	38	+ 7
	8. ENGLAND, S.W.	3	7	3 less	165	−31	32·9	− 7·7	18	+ 7	33	+13	1718	+ 70	40	+ 2
	9. IRELAND, NORTH	5	8	0 average	224	+ 3	36·9	+ 1·6	9	+ 1	18	+ 2	1346	+ 89	31	+ 2
	10. IRELAND, SOUTH	4	6	5 less	185	−18	35·8	− 4·6	12	+ 1	22	+ 1	1473	+ 35	34	+ 1
	— CHANNEL ISLANDS	6	7	2 less	190	− 7	29·6	− 3·2	19	+ 5	33	+ 8	1913	+ 37	45	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather during this period was cold and unsettled generally. Snow, sleet or cold rain were frequently experienced in the more northern and western districts, but in the south and south-east the weather was drier and fairer, and the rainfall slight. Thunder and lightning were experienced at some north-western stations on the 18th or 19th.

Temperature was below the mean in all parts of the Kingdom, the deficit in most districts being as much as 5° or 6°. The highest of the maxima occurred, as a rule, during the middle of the week, and ranged from 53° in the Channel Islands, and 48° in Ireland S. to 41° in England E. and the Midland Counties. The daily maxima at inland stations were frequently only a few degrees above the freezing point. The lowest of the minima, which, with some exceptions were recorded either on the 20th or 21st, ranged from 12° in the Midland Counties, 19° England S.W., and from between 20° and 23° in most other districts to 31° in the Channel Islands.

Rainfall was more than the mean in England N.E., and Scotland E., and just equal to it in Ireland N. ; in all other districts it was less.

Bright Sunshine exceeded the normal amount in most parts of the Kingdom—especially in the south and south-west—but was deficient in Scotland E. and England N.E. The percentage of the possible duration ranged 46 in England S., and 33 in the Channel Islands and England S.W. to 12 in Scotland N., 8 in Scotland E., and 6 in England N.E.

Barometer and Wind.—The distribution of pressure over our Islands changed frequently during this week. The principal disturbances were,—one that moved quickly southwards over the western part of our Islands soon after the commencement of the period, and disappeared over Spain, and another system which after travelling southwards down the North Sea to our north-east coasts remained stationary and gradually filled up. As pressure to the westward of these disturbances was comparatively high, the Northerly winds on our western coasts were generally strong, and at times attained the force of a gale, but in the east and south the winds were more variable and lighter in force. At the end of the week the barometer was falling decidedly along our western coasts, and the wind in that region had shifted to S. or S.E. and was increasing in force.

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II.—DATA from which the SUMMARY on page 301 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	42	25	37·6	31·1	34·5	- 5·0	0	53	7	0·74	- 0·26	*	*	*	*
	Stornoway	43	29	41·4	31·6	36·7	- 2·4	0	37	5	1·13	- 0·14	8·5	+ 3·2	19	+ 7
	Wick	44	25	39·9	29·3	34·8	- 3·3	0	50	7	1·03	+ 0·33	*	*	*	*
	Lairg Ⓢ	38	24	34·7	25·6	30·3	- 4·4	0	82	5	0·86	- 0·04	*	*	*	*
	Glencarron Ⓢ	41	24	37·3	28·2	32·9	- 3·8	0	64	4	1·52	- 0·77	*	*	*	*
	Fort Augustus Ⓢ	?	20	?	27·6	?	- ?	?	?	7	0·80	- 0·40	0·1	- 1·9	0	- 4
	Fort William Ⓢ	45	25	39·1	28·8	34·2	- 5·2	0	55	4	0·86	- 1·40	4·3	+ 1·6	9	+ 3
1. SCOTLAND, E.	Nairn	39	24	37·1	27·4	32·4	- 5·2	0	67	3	0·42	- 0·07	*	*	*	*
	Aberdeen	42	23	38·0	29·1	33·7	- 4·1	0	58	5	1·51	+ 0·78	4·1	- 4·6	9	+ 10
	Braemar Ⓢ	38	10	32·6	22·9	27·9	- 6·5	0	99	6	1·37	+ 0·62	*	*	*	*
	Ochtertyre Ⓢ	41	20	37·3	28·1	32·9	- 4·1	0	64	4	0·22	- 0·78	*	*	*	*
	Leith	43	26	38·6	29·3	34·1	- 5·2	0	55	3	0·44	0·00	*	*	*	*
	Marchmont Ⓢ	38	21	35·4	25·9	30·8	- 5·7	0	78	5	0·79	+ 0·10	4·0	- 3·3	9	- 6
2. ENGLAND, N.E.	Alnwick Castle	40	20	37·6	28.5	33·1	- 5·1	0	62	5	2.05	+ 1·38	*	*	*	*
	Durham	40	21	35·4	27·2	31·5	- 5·8	0	74	5	0·46	- 0·12	5·1	- 4·4	10	- 10
	Shields	42	26	37·1	29.4	33·4	- 5·6	0	60	6	1·62	+ 1·09	*	*	*	*
	Scarborough Ⓡ	41	29	38.2	30·5	34·5	- 4·4	0	53	5	0·44	- 0·17	1·2	—	2	—
	Spurn Head	40	30	37·7	31·7	34·8	- 4·6	0	50	3	0·20	- 0·25	*	*	*	*
	Fulbeck (Lincolnshire)	39	25	33·6	28·2	31·0	- 6·1	0	77	6	0·24	- 0·21	*	*	*	*
3. ENGLAND, E.	Hillington Ⓡ	39	20	36·3	27·1	31·9	- 5·6	0	71	4	0·19	- 0·36	12·0	+ 2·7	24	+ 6
	Yarmouth	37	28	36·0	30·1	33·2	- 5·1	0	62	3	0·19	- 0·36	*	*	*	*
	Geldeston	40	25	37·7	28·0	33·0	- 5·5	0	63	3	0·14	- 0·33	15·6	+ 4·8	29	+ 8
	Cambridge	40	21	37·9	26·4	32·4	- 5·4	0	67	1	0·01	- 0·39	15·3	+ 6·0	29	+ 11
	Felixstowe	39	26	37·5	29·8	33·8	- 5·0	0	57	2	0·09	—	24·1†	- †	45†	- †
	Rothamsted	41	21	36·9	25·2	31·3	- 6·6	0	75	4	0·09	- 0·46	16·1	+ 6·6	30	+ 12
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	38	24	35·3	28·6	32·1	- 5·5	0	69	4	0·37	- 0·10	*	*	*	*
	Loughborough	40	12	35.3	26·3	31·0	- 7·2	0	77	4	0·22	- 0·31	*	*	*	*
	Colly Weston (Stamford)	39	20	36·4	26·7	31·7	- 5·5	0	72	3	0·05	—	*	*	*	*
	Cheadle Ⓡ	38	24	34·9	27·0	31·1	- 6·0	0	76	5	0·42	- 0·30	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	38	25	35·9	28·2	32·2	- 6·4	0	69	3	0·20	- 0·30	7·8	—	15	—
	Churchstoke Ⓡ															
	Hereford Ⓡ	41	19	37·7	25·2	31·7	- 7·1	0	72	1	0·06	- 0·49	*	*	*	*
	Cirencester	40	13	38·0	23·3	30·9	- 6·9	0	78	1	0·04	- 0·61	6·3	- 2·9	12	- 5
	Oxford	41	20	38·1	26·7	32·6	- 6·2	0	66	2	0·05	- 0·43	15·6	+ 6·1	29	+ 11
5. ENGLAND, S	London	42	24	38·6	27·3	33·2	- 6·4	0	62	1	0·09	- 0·39	7·4†	+ 2·8†	14†	+ 5†
	Swarraton (Alresford) Ⓡ	42	21	37·6	24·9	31·5	- 6·4	0	74	2	0·11	- 0·59	*	*	*	*
	Dungeness	44	26	40·3	30·1	35·4	- 5·3	0	46	2	0·15	- 0·32	21·6	—	40	—
	Hastings (St. Leonards)	44	28	38·8	30·8	35·0	- 5·8	0	49	3	0·29	- 0·37	28·9	+15·9	54	+ 30
	Southampton	44	25	39·2	29·0	34·3	- 6·4	0	54	2	0.20	- 0·52	16·8	+ 5·8	31	+ 11
	Portland Bill	45	30	42·3	34·3	38·5	- 4·0	1	29	3	0·18	—	*	*	*	*
	Shaftesbury Ⓡ	41	24	37·0	28·3	32·8	- 4·4	0	64	4	0·32	- 0·40	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	26	39·3	30·0	34·8	- 5·9	0	50	4	1·38	- 0·76	*	*	*	*
	Glasgow	42	27	38·4	29·9	34·3	- 4·4	0	54	5	0·29	- 0·66	5·2	+ 1·5	11	+
	Glenlee Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	44	25	41·3	30·6	36·2	- 5·4	0	41	4	0·61	- 0·45	9·4	+ 0·9	19	+ 1
7. ENGLAND, N.W	Newton Reigny	40	21	35·7	25·3	30·7	- 7.3	0	79	4	0·50	—	1·4	—	? 23	—
	Stonyhurst	41	21	35·7	28·2	32·1	- 6·1	0	69	5	0·55	- 0·53	11·9	+ 6·2	24	+13
	Blackpool Ⓡ	44	23	39·2	28·4	34·0	- 5·3	0	56	6	0·79	+ 0·06	10·1	+ 4·4	20	+ 9
	Manchester (Prestwich)	41	20	35·1	28·4	31·9	- 6·6	0	71	3	0·46	- 0·38	5·6	—	11	—
	Liverpool Obsy. (Bidston)	42	28	37·9	31·6	34·9	- 5·2	0	50	4	0·43	- 0·16	13·2	—	26	—
	Chester	43	25	38·7	30·6	34·8	- 6·2	0	50	3	0·21	—	†	†	†	†
	Llandudno Ⓡ	43	28	40·8	33·5	37·3	- 4·8	0	33	5	0·76	+ 0·06	13·2	+ 5·2	26	+11
	Holyhead	44	32	41·6	35·0	38·4	- 4·7	0	25	5	1·15	+ 0·27	*	*	*	*
8. ENGLAND, S.W.	Llandovery	42	19	38·4	27·3	33·1	- 5·5	0	62	4	0·58	- 0·68	*	*	*	*
	Pembroke	47	33	45·0	35·0	40·2	- 3·8	8	28	4	1·76	+ 0·83	13·4	+ 2·9	25	+ 6
	Clifton	43	23	39·0	28·1	33·8	- 6·1	0	57	0	0·00	- 0·76	*	*	*	*
	Bath	44	21	39·4	26·4	33·2	- 6·6	0	62	1	0·02	—	15·4	—	29	—
	Arlington (N. Devon)	43	23	40·3	30·4	35·6	- 4·8	0	45	3	0·48	- 0·91	*	*	*	*
	Cullompton Ⓡ	44	19	40·4	26·8	33·9	- 5·6	0	57	4	0·43	- 0·42	13·2	+ 4·6	24	+ 8
	Falmouth	46	32	42·9	35·4	39·3	- 5·3	3	25	6	1·41	+ 0·15	24·5	+12·0	45	+22
	Plymouth	47	25	43·0	32·5	38·0	- 5·0	3	36	5	1·10	+ 0·15	17·2	+ 5·8	31	+10
9. IRELAND, N.	Malin Head	44	31	43·3	36·6	40·1	- 1·7	4	21	5	0·85	—	*	*	*	*
	Edenfel (Omagh)	43	20	38·1	29·0	33·7	- 4·1	0	58	3	0·80	- 0·05	*	*	*	*
	Blacksod Point	47	34	44·0	36·6	40·5	- 2·8	6	22	7	0·80	—	*	*	*	*
	Markree Castle	47	24	42·6	28·3	35.7	- 3·9	2	50	5	0·94	- 0·02	9·8	+ 2·2	20	+ 5
	Armagh	42	20	39·0	28·1	33·8	- 5·1	0	57	4	0·43	- 0·23	8·7	+ 0·4	17	+ 1
	Donaghadee	43	28	42·3	33·3	38·0	- 3·1	1	32	5	0·96	+ 0·30	*	*	*	*
10. IRELAND, S.	Dublin	43	24	40·3	30·9	35·8	- 5·9	0	43	5	0·28	- 0·26	13·1	+ 1·1	26	+ 3
	Parsonstown	41	23	39·0	26·7	33·1	- 6.8	0	62	5	0·26	- 0·46	11·8	+ 1·8	23	+ 3
	Kilkenny	41	25	39·4	28·0	33·9	- 6·8	0	57	3	0·21	- 0·55	*	*	*	*
	Roche's Point	46	30	43·1	34·4	38.9	- 5·3	3	28	3	0·71	- 0·53	*	*	*	*
	Valencia	48	31	45·6	34·7	40·4	- 5·1	10	30	7	1·65	+ 0·21	8·1	- 1·5	15	- 3
	Killarney	?	26	?	29·8	?	?	?	?	2	0·41	- 1·24	*	*	*	*
	Foynes	46	28	42·5	32·6	37·8	- 4·2	1	35	3	0·41	- 0·68	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	37	48·4	39·0	43·9	- 3·1	26	8	7	0·92	- 0·02	22·0	—	40	—
	Jersey	45	31	42·7	33·9	38·5	- 5·4	2	30	4	0·44	- 0·43	23·7	+ 9·7	42	+17

Stations marked Ⓡ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

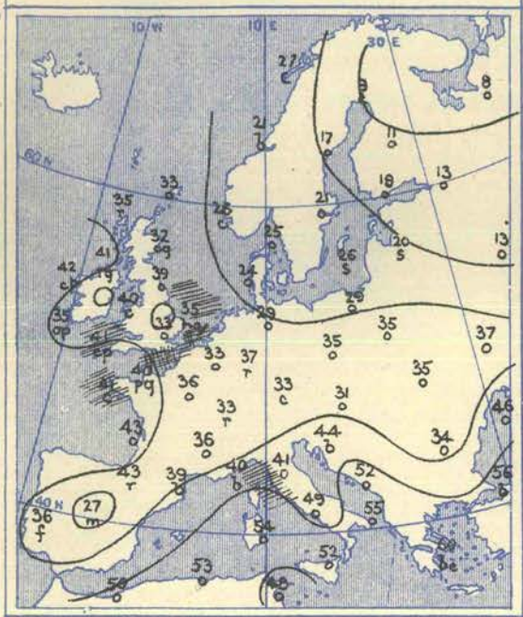
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 15th December.

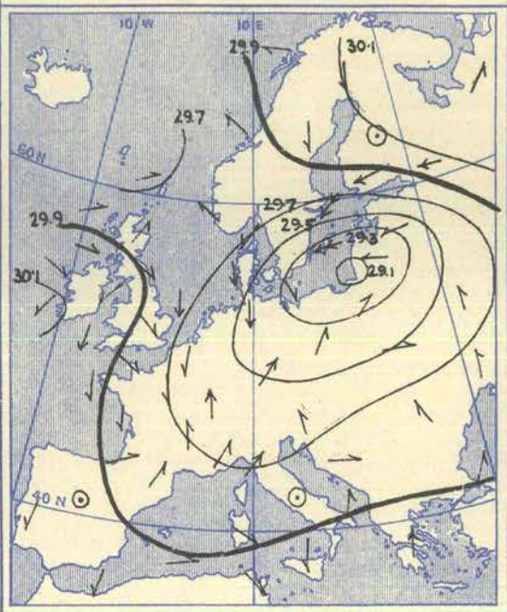
Temperature and Weather.

8 a.m.

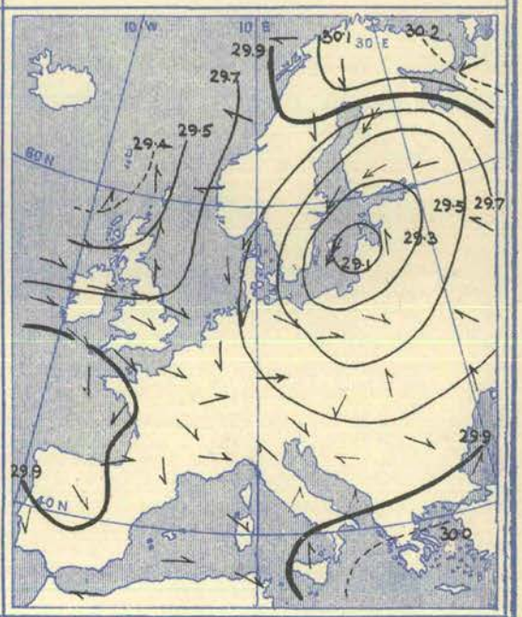


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine in some parts of England and in the extreme south-east of Europe: rain falling at Biarritz, and showers on our south-western coasts. Snow on our north and east coasts, as well as in Finland and at Riga. Rain or snow later over the United Kingdom, France, Germany, Austria-Hungary, and Russia, and considerable quantities of rain in Italy.

Temperature at 8 a.m. highest, 60° at Athens, 55° at Brindisi, and above 50° at many Mediterranean stations. Lowest, 8° at Archangel, 9° at Haparanda, 13° at Moscow and St. Petersburg. Below 30° over eastern and northern Europe generally. Lowest in our Islands; 28° at Loughborough. Only 27° at Madrid. Rising later to 40° and above at our own western stations to about 50° in the south of France, to 63° at Nemours, and to 67° at Palermo. Remaining below the freezing point in Scandinavia and Russia, as well as in some parts of Germany.

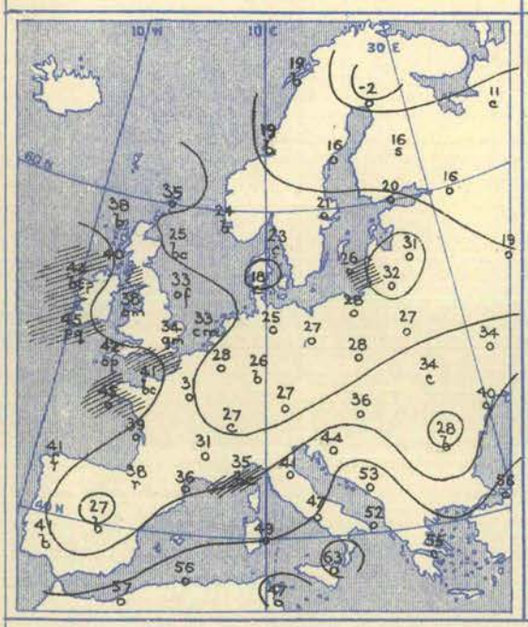
Wind Northerly and fresh in places over England and Ireland, and light from the Westward to South-Westward in Scotland; North-Easterly, strong to a gale over the south of Scandinavia, the Baltic, and Gulf of Finland. Fresh from North in Denmark, and light from South-West and West over Germany and Austria. Light and variable, but mainly Southerly over southern Europe. Westerly and South-Westerly current extending southwards over the United Kingdom during day. North-Easterly gales continuing in south Sweden and Baltic, and extending northwards to Finland.

Barometer at 8 a.m. highest 30·1 ins. and more over north-eastern Russia, and 30·0 ins. and upwards over Ireland. Lowest, 29·1 ins. and less in a well-defined system over north-eastern Prussia; 29·7 ins. and less to the north of the Shetlands. Prussian disturbance scarcely changing its position later, but barometer falling briskly in Scotland and Ireland, and a low pressure system spreading over our Islands from the north-westward. No other change of importance.

Monday, 16th December.

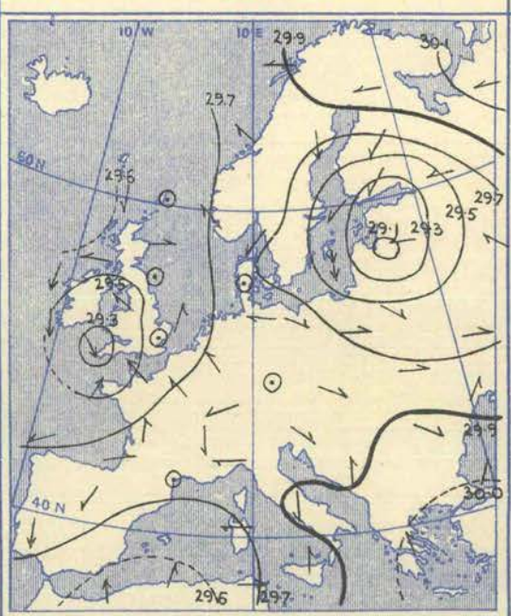
Temperature and Weather.

8 a.m.

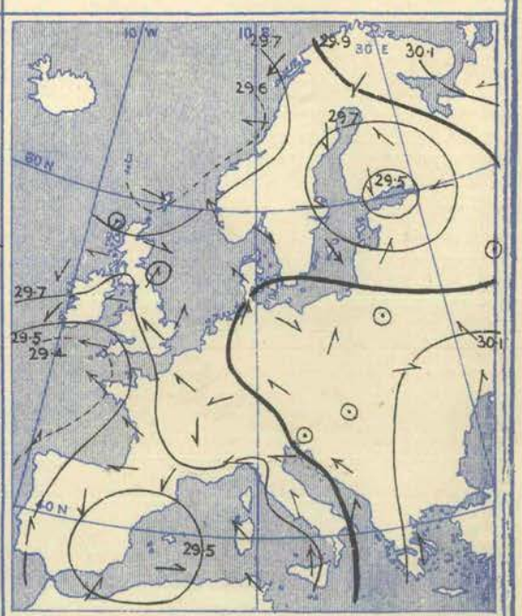


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in nearly all places, but sky clear at some stations in Scotland, and Spain, and central Europe. Rain falling over our south-western districts, as well as at Brest and Biarritz, and snow over central England and in Finland. Rain later in most parts of the United Kingdom, France, northern Italy, and Spain, and rain or snow in Austria. More than 1·5 ins. measured at Barcelona and Perpignan, and 2·9 ins. at Cape Béarn.

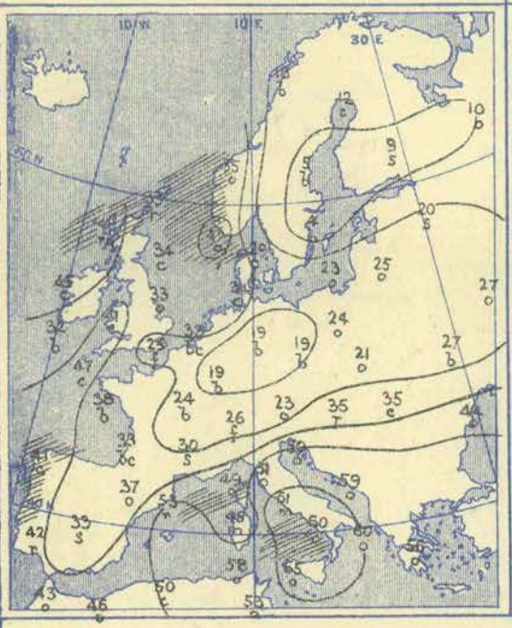
Temperature at 8 a.m., highest, 63° at Palermo, 57° at Nemours, and 56° at Constantinople. Lowest—9° at Haparanda, +6° at Helsingfors, 11° at Archangel. Lowest in our Islands 25° at Aberdeen. 27° at Madrid and between 35° and 39° in the Riviera. Rising to about 50° in the west of France during day, to 60° at Naples, rather above 60° in Algeria, and to 67° at Palermo. Remaining below 32° over northern and eastern Europe.

Wind showing two complete cyclonic circulations of considerable force—one over the Baltic Provinces and their neighbourhood, and the other over our Islands and the west and north of France. Wind chiefly light and variable elsewhere. No very great change during day, but wind becoming Westerly in north Scotland, and blowing freshly from South-East and East over Italy and the Riviera.

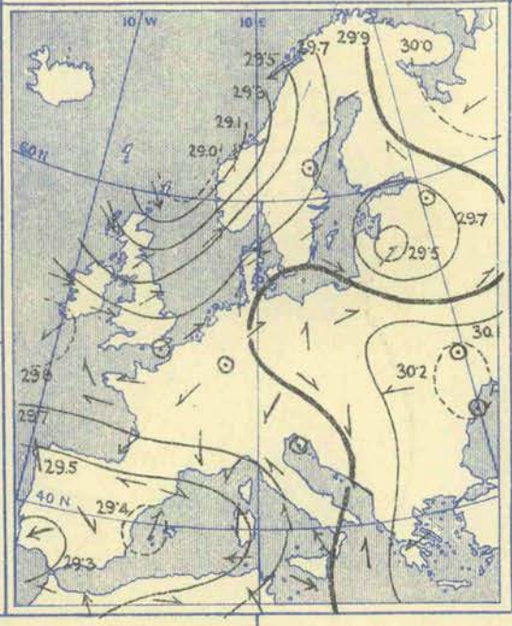
Barometer at 8 a.m. highest 30·1 ins. and upwards over the White Sea and its neighbourhood, and 30·0 ins. and upwards over Turkey and Greece. Lowest, 29·1 ins. and less in the centre of a disturbance near Riga, and 29·3 ins. and less in another system lying over our south-west coasts. Latter moving southwards during day, and a large shallow cyclonic area forming over the western part of the Mediterranean. Russian low pressure system remaining almost stationary, and decreasing in depth.

Tuesday, 17th December.

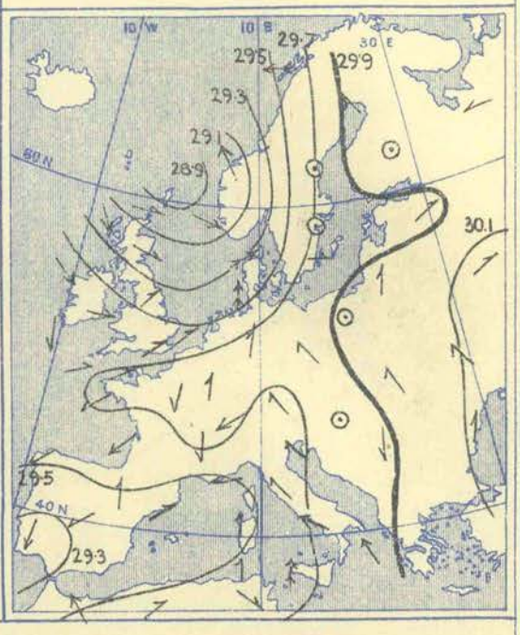
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in a few isolated localities, but dull generally with rain in the north of our Islands, Lisbon, and Barcelona; and snow in Finland, at St. Petersburg, Buda-Pesth, and Madrid. Considerable quantities of rain or snow over our Islands later, and some snow over northern and central Europe. Heavy rain in Italy, and the west and south of France; amount at Perpignan as much as 1·8 ins.

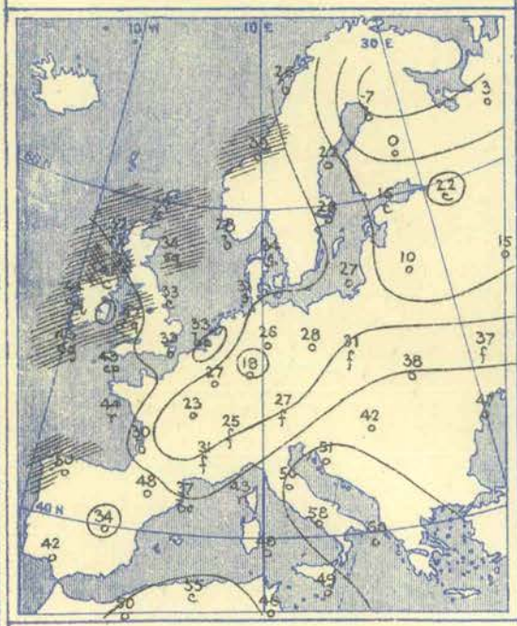
Temperature at 8 a.m., highest, 65° at Palermo, and 61° or 60° in the south of Italy. Lowest (1) 4° at Karlstad and Stockholm, 5° at Hernösand, 9° at Kuopio, 10° at Archangel; (2) 19° at Berlin and Brussesl, 24° at Paris; (3) 25° at Bath and in London. Rising during day to 58° at Scilly to between 58° and 60° in the Riviera and Italy, to 68° at Tunis, and to 71° at Palermo. Remaining below 32° over northern and eastern Europe generally, and only rising to a little above that point in the central parts of France.

Wind in morning moderate to strong, from between South-West and North-West over the northern half of the United Kingdom, and strong to a gale from South in Norway. Light cyclonic circulation over Russia, and stronger current of cyclonic winds over Italy, Spain and Portugal, and the western part of the Mediterranean. Wind veering towards North on our north-western coasts later, and increasing to a gale. Southerly gales setting in in Denmark and at Palermo. Cyclonic circulation over Russia disappearing.

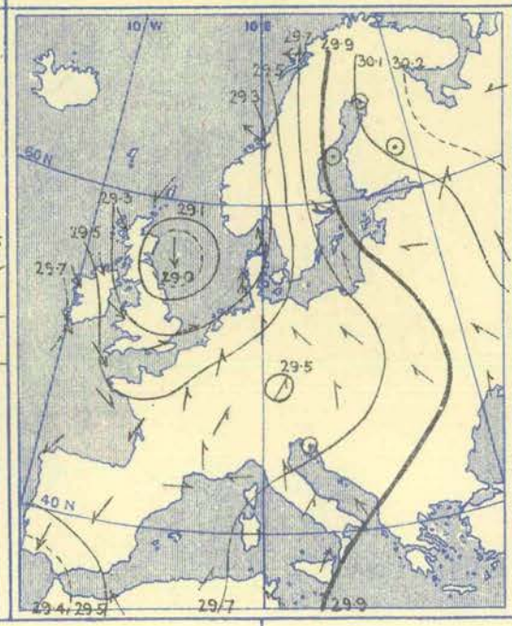
Barometer at 8 a.m., highest, 30·2 ins. and more in an anticyclone over southern Russia, and above 30·0 ins. in the north-east of that country; 29·8 ins. and upwards over the south-west of Ireland. Lowest, 29·0 ins. and less off the north of Scotland, 29·2 ins. over the south-west of Spain, and 29·5 ins. and less near Riga. Very little modification, as a whole, during day, but Russian cyclonic system dispersing.

Wednesday, 18th December.

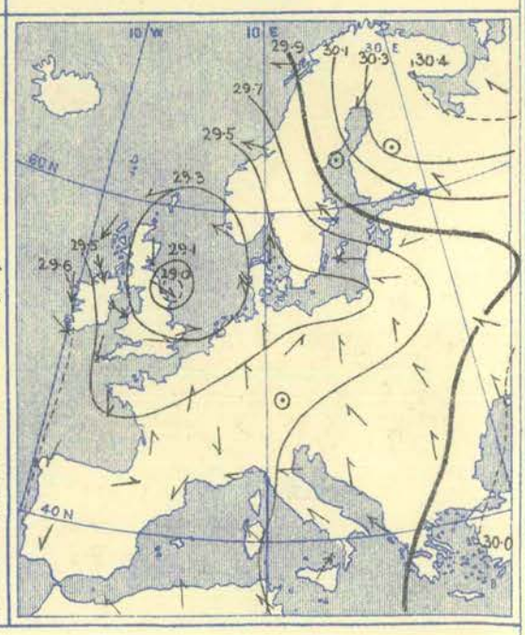
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in nearly all regions, but fine and bright at some of our own western and southern stations. Snow falling in Scotland, and at Spurn Head as well as in Denmark, and rainy in the north of France, at Bilbao and Cape Sicie. Considerable amounts of snow on our north and north-east coasts later, and also at the Scaw, and heavy rain in many parts of France.

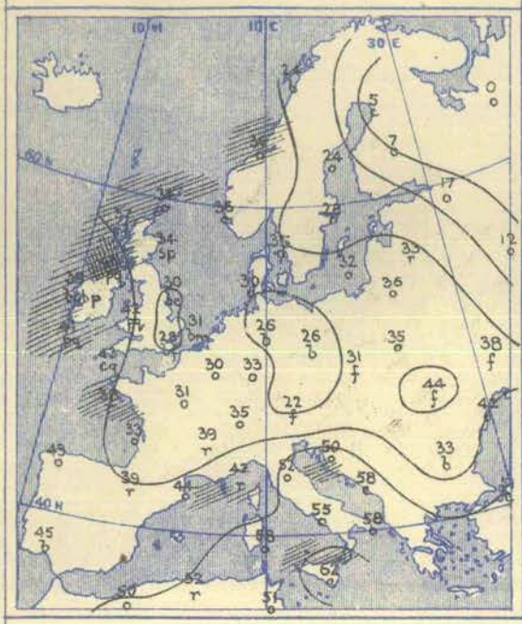
Temperature at 8 a.m. highest 60° at Brindisi, 58° at Naples, 54° at Rome. Lowest (1) – 7° at Haparanda, zero at Kuopio, + 3° at Archangel, 10° at Riga, 15° at Moscow. (2). 18° to 20° in western Germany. Lowest in our Islands, 30° at Sumburgh-Head and 32° at Oxford. Rising during the day to 49° at Scilly, 52° at Brest, to between 55° and 63° in the south of France, to a rather higher value in Italy and to 75° and 76° at Algiers and Palermo respectively. Continuing below 32° all day over northern Europe and in some parts of Germany, and not exceeding 35° at Le Mans.

Wind in morning Northerly to North-Westerly and Westerly, and strong to a gale in force over the United Kingdom, and strong from South and South-East with gales in places over Denmark and Norway. Moderate South-Westerly winds prevailing in Italy, a South-Easterly gale at Nemours and strong North-Easterly breezes in the Spanish Peninsula. No very great change later over North-Western Europe, but gale dying down at Nemours and wind in Italy becoming light and variable.

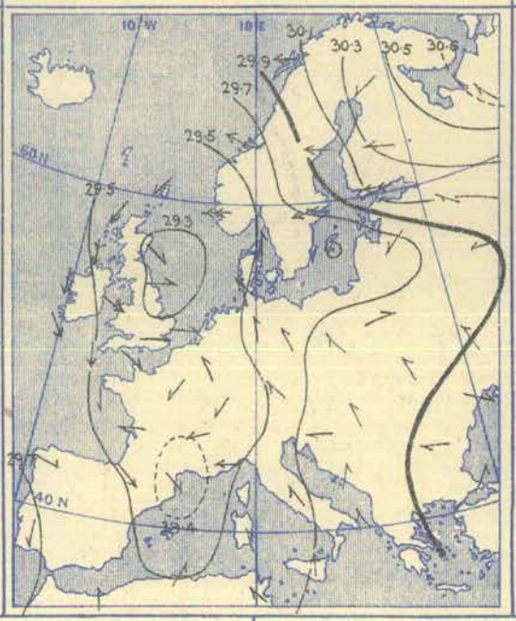
Barometer at 8 a.m., highest, 30·1 ins. and upwards over Finland and Northern and Eastern Russia. Lowest 28·9 ins. and less in a deep cyclonic system over the North Sea and 29·4 ins. and 29·5 ins. in two other minima lying respectfully over the south-west of Spain and Bavaria. Northern disturbance moving slowly southwards during day and growing rather less deep, and the two other systems dispersing. Barometer rising quickly in north Sweden and northern Russia.

Thursday, 19th December.

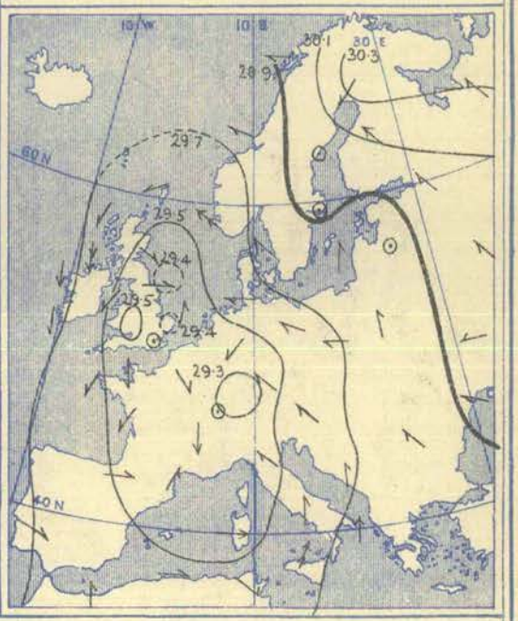
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of England and Ireland, but dull in other parts of our area, rain falling in the Hebrides and snow showers at Aberdeen, rainy at Biarritz, Brest, Barcelona, and Nice, and foggy in different parts of central Europe. Snow, hail, or sleet falling during day in many parts of the United Kingdom, and considerable quantities of rain in Italy and the south of France,—as much as 0·9 inch at Turin and Cagliari.

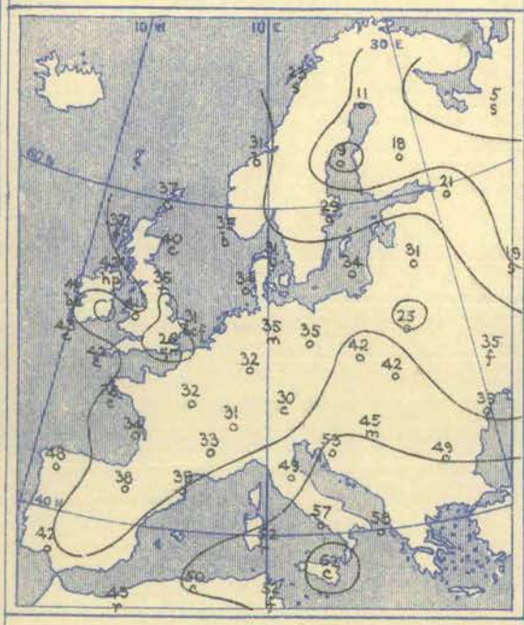
Temperature at 8 a.m. highest, 62° at Palermo, 58° at Cagliari, Brindisi, and Lesina, and above 50° over Italy generally. Lowest 0° (zero) at Archangel, 3° at Haparanda, 7° at Kuopio and 12° at Moscow. Below 32° over the inland parts of England and Scotland. Remaining below 40° all day at many of our northern and central stations and also in several parts of France; exceeding 50° over southern Europe and reaching 69° at Palermo. Severe frost occurring over central England at night; thermometer at Loughborough falling to 12°.

Wind still showing a complete cyclonic circulation over the United Kingdom, the North Sea, Denmark and Scandinavia; strong to a gale in places, but moderate or light generally. Feeble circulation of cyclonic winds in south of France and Western Mediterranean, Southerly gale at Palermo. Light Easterly winds in northern Russia, and light airs from the southward over central Europe—no material change occurring during the day.

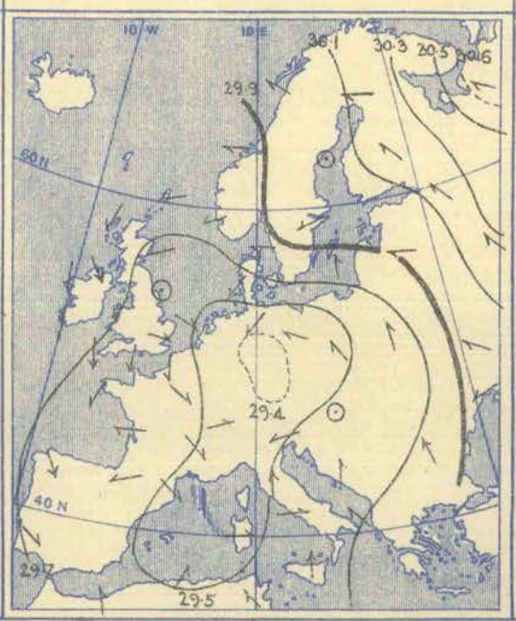
Barometer at 8 a.m. Highest, 30·6 ins. and upwards over the White Sea. Lowest, 29·3 ins. and less in a slowly dispersing cyclonic system lying over the North Sea, 29·4 ins. and less in another system over the south of France and its neighbourhood; 29·6 ins. and less over the Southern portion of the Baltic. Cyclonic area over North Sea continuing to disperse slowly during day; Depression over south of France moving north-eastwards to Switzerland and south Germany.

Friday, 20th December.

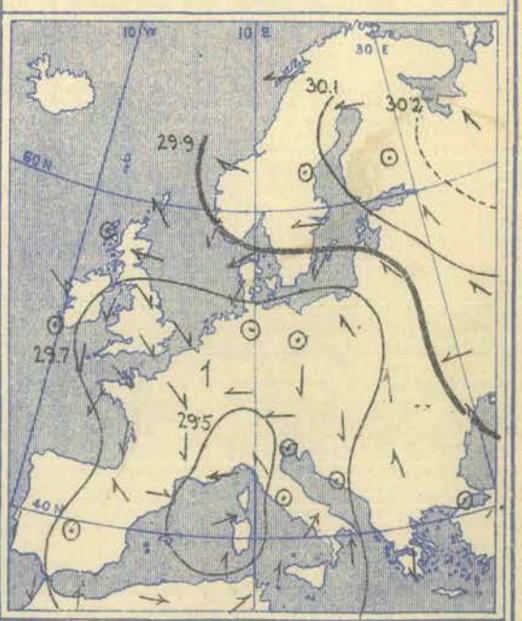
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in nearly all places. Rain falling in Western Algeria, North Germany, the Helder, and Copenhagen, and snow at Brussels, Moscow and Archangel. Fog prevailing over central and south-eastern England and in South Russia. Rain falling later in the north and east of our Islands, the Netherlands, Italy and the south of France; as much as 1·2 ins. measured at Nice.

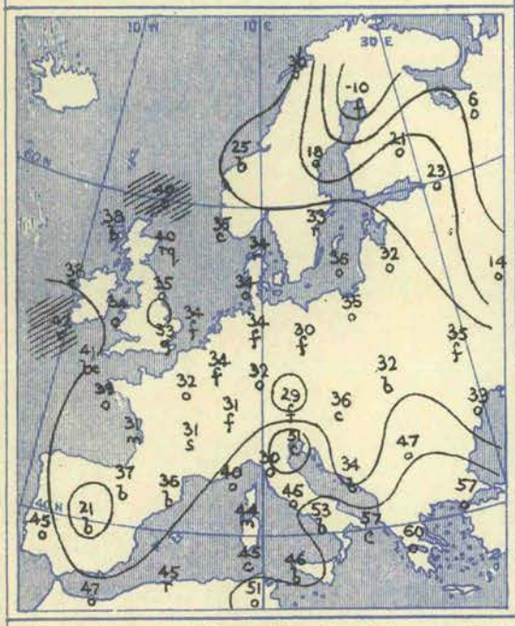
Temperature at 8 a.m., highest 62° at Palermo, 59° at Lesina and above 50° at most Mediterranean and Adriatic stations. Lowest 5° at Archangel, 0° at Hernösand, and below 32° over Scandinavia and northern Russia generally. Lowest in the United Kingdom, 21° at Oxford. Rising later to 45° or 46° on our south-western coasts, to 48° at Nice, to 58° or rather above in many parts of southern Europe, and to 65° Palermo. Maxima not exceeding 33° over central England.

Wind at 8 a.m., light or moderate from some Northerly point over the United Kingdom and France; and from North-East in Scandinavia and Denmark. South-Easterly to Easterly over the east and north of Germany, and South-Westerly at Munich. Light from the South-Eastward over Russia. A light cyclonic circulation prevailing in the western part of the Mediterranean. Not much change later, but wind becoming more Easterly over Russia, and shifting to East at Munich.

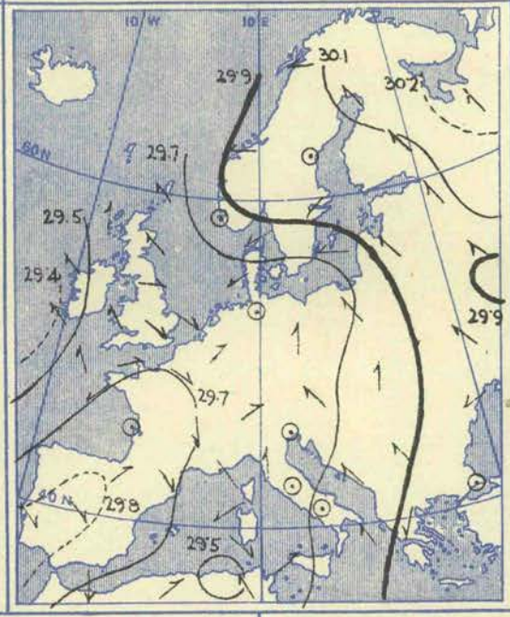
Barometer at 8 a.m., highest, 30·4 ins. and more in the extreme north-east of Russia; 29·8 ins. and more off the west of Ireland. Lowest, 29·4 ins. and less in a shallow cyclonic disturbance over west Germany, and about the same value in a similar system lying between the Spanish coast and Sardinia. German disturbance dispersing later, and that in south moving northwards. Barometer falling in Ireland and west Scotland.

Saturday, 21st December.

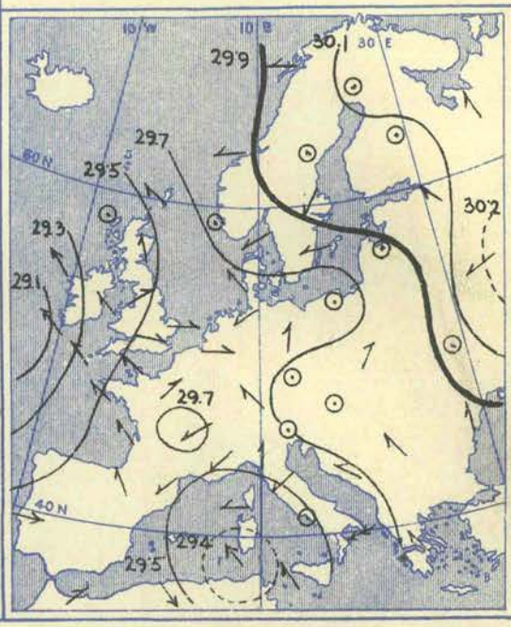
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull generally, with rain in parts of Ireland and Scotland, and fog over England. Rain falling at Stockholm and Skagen, as well as at Algiers, and snow in central France. Fog prevailing in many parts of central Europe. Heavy rain during day in south-west Ireland, and smaller amounts at some of our northern and eastern stations. Rain at the southern French and Italian stations also.

Temperature at 8 a.m., highest, 60° at Athens and Patras, and 57° at Brindisi. Lowest, - 10° at Haparanda, + 6° at Archangel, 14° at Moscow, and much below 32° over northern Europe generally. Several degrees below 32° over central England, the lowest reading being 22° at Bath. Rising during day to 46° at western and southern French stations, and to between 50° and 60° in Italy, but remaining below 32° over northern Europe, as well as at Nantes, and not much exceeding that point at some of our own inland and eastern stations.

Wind in morning moderate to fresh from South-East in Ireland, the west of England and the north of Scotland, and light Westerly or North-Westerly in the east and south of England. Feeble cyclonic circulations over the southern part of the Baltic and the south-west of Germany. Light and variable breezes elsewhere, but mainly Easterly or North-Easterly in northern Europe. Wind increasing from the South-Eastward on our west and south-west coasts later. Cyclonic circulations dying out over the Baltic and Germany, but a similar movement springing up in the Mediterranean.

Barometer at 8 a.m., highest, 30·2 ins. and upwards over the White Sea, and 29·8 ins. and more in a small zone lying over Spain and Portugal. Lowest, 29·4 ins. and less off the west of Ireland, 29·5 ins. and less in eastern Algeria, and 29·6 ins. between Copenhagen and the Prussian coast. Barometer falling quickly on our south-west coasts later, and a shallow disturbance appearing in the neighbourhood of Sardinia and Tunis.

GENERAL NOTES.

During nearly the whole of this period barometical pressure was highest over the north eastern part of Russia, while over the rest of Europe it was generally rather low. During the earliest days of the week a well marked cyclonic disturbance was gradually dispersing over the southern parts of the Baltic and the adjacent countries, while another similar system moved quickly southwards over our Islands to the southwest of Spain. The next disturbance of importance appeared off the north of Scotland on Tuesday, and this, after moving southwards to our north-east coast, slowly filled up. No other baric minima of much importance appeared, but shallow systems were shown from time to time in the Mediterranean and towards the end of the week a shallow disturbance was found over Germany.

The Baltic cyclonic system produced strong North-east and Easterly gales to the northward of its centre during the early part of the period, while our own northern and western coasts were visited by Northerly and North-westerly gales caused by this disturbance in our immediate neighbourhood. Towards the latter part of the week the wind became less strong generally, and was mainly South-easterly to North-easterly over eastern and northern Europe, North-westerly or Northerly in our Islands, and variable or Easterly in southern Europe. Temperature was low generally, snow was rather frequent at some northern stations, and rain in the west and south-west of the United Kingdom and also in parts of France and Italy. At the end of the week another storm centre was approaching Ireland from the Atlantic, and the wind on our western coasts had shifted to the South-eastward and increased in force.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	8·4	+ 2·7	20	+ 6	BRIGHTON	26·0	+ 14·6	48	+ 27
STRATHPEFFER SPA	—	—	—	—	WORTHING	29·4	—	54	—
EDINBURGH	3·1	- 1·9	7	- 4	BOGNOR	27·1*	—	50*	—
MORPETH	5·0	—	10	—	WATERGATE (Emsworth)	28·8	—	53	—
NEWCASTLE-ON-TYNE	3·0	—	6	—	WESTBOURNE (Emsworth)	30·5*	+ 19·1	56*	+ 35
OSWALDKIRK (Yorkshire)	0·2	- 7·5	0	- 15	VENTNOR HOSPITAL	29·1	+ 18·2	54	+ 34
YORK	—	—	—	—	BOURNEMOUTH	35·2	—	65	—
LOWESTOFT	14·6	—	28	—	SOUTHPORT	10·9	—	22	—
HOLLESLEY BAY	19·8	—	37	—	RHYL	—*	—	—*	—
SHEFFIELD	14·4	—	28	—	COLWYN BAY	—	—	—	—
WORKSOP	8·6	+ 1·7	17	+ 4	ABERDOVEY	15·4*	—	30*	—
THURCASTON (Leicestershire)	4·0	- 3·0	8	- 6	TENBY	19·5	+ 9·7	37	+ 18
MARGATE	? 17·8	? + 7·3	? 33	? + 14	NEWQUAY	16·3	+ 6.0	30	+ 10
BROADSTAIRS	21·1	—	39	—	TORQUAY	21·3	+ 9·3	39	+ 18
EASTBOURNE	29·6	+ 17·2	55	+ 32	CAHIR (Duneske)	12·7*	—	24*	—
					GUERNSEY	10·0*	- 0·3	18*	- 1

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XVIII. No. 52. | *Third Series.*

WEEK ENDING SATURDAY, DECEMBER 28TH, 1901.

[*Price 6d.*
Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 308.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 30th, 1900. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	20	39·4	31·2	35·4	2 below	0	− 7	46	+14	2386	+363	859	+ 56
	1. SCOTLAND, EAST	42	16	37·2	29·5	33·4	4 below	0	− 7	60	+21	2527	+157	1041	+133
	2. ENGLAND, N.E.	42	16	38·2	29·3	34·0	4 below	0	− 9	56	+23	2856	+246	786	+ 66
	3. ENGLAND, EAST	47	21	39·4	29·2	34·5	3 below	0	− 9	53	+16	3139	+120	829	+ 37
	4. MIDLAND COUNTIES	47	14	38·9	27·1	33·2	5 below	0	−10	62	+24	3075	+118	911	+ 92
	5. ENGLAND, SOUTH	50	15	42·9	30·6	37·0	3 below	3	−11	42	+14	3331	− 17	644	+ 74
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	46	22	39·7	31·3	35·7	5 below	0	−12	44	+19	2686	+121	692	+ 84
	7. ENGLAND, N.W.	52	4	40·2	30·4	35·5	4 below	0	−12	45	+19	2966	+148	651	+ 85
	8. ENGLAND, S.W.	51	20	44·2	31·2	38·6	3 below	6	−13	41	+22	3279	+119	560	+129
	9. IRELAND, NORTH	49	20	42·4	32·2	37·5	3 below	1	−13	36	+13	2703	− 17	524	0
	10. IRELAND, SOUTH	51	24	44·6	33·8	39·5	3 below	7	−15	33	+15	3131	− 8	455	+ 68
	—CHANNEL ISLANDS	52	31	48·1	38·7	43·6	2 below	25	− 4	9	+ 3	3895	+113	197	+ 50

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 308.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From December 30th, 1900. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 30th, 1900. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	1 less	237	+ 7	44·5	− 6·3	3	− 2	6	− 5	1270	+152	29	+ 4
	1. SCOTLAND, EAST	5	12	6 more	198	+ 1	28·4	− 3·4	4	− 4	9	− 7	1459	+163	33	+ 4
	2. ENGLAND, N.E.	4	9	4 more	168	−15	24·9	− 1·0	11	+ 1	21	+ 4	1539*	+241	35	+ 6
	3. ENGLAND, EAST	5	11	6 more	158	−26	20·7	− 4·7	13	+ 2	24	+ 4	1821	+171	39	+ 4
	4. MIDLAND COUNTIES	5	13	7 more	155	−20	25·9	− 2·3	8	− 1	16	− 1	1487	+145	35	+ 3
	5. ENGLAND, SOUTH	5	15	9 more	146	−26	24·3	− 4·4	12	+ 1	22	+ 3	1870	+200	42	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	15	1 more	210	− 4	50.0	− 3·0	6	0	13	0	1532	+190	35	+ 5
	7. ENGLAND, N.W.	6	12	4 more	185	− 8	30·2	− 5·3	7	− 2	14	− 3	1683	+287	38	+ 7
	8. ENGLAND, S.W.	6	20	10 more	171	−30	34·9	− 6·7	10	− 1	18	− 1	1728	+ 69	40	+ 2
	9. IRELAND, NORTH	6	13	6 more	230	+ 4	38·2	+ 2·1	13	+ 5	26	+ 9	1359	+ 94	31	+ 2
	10. IRELAND, SOUTH	6	12	2 more	191	−16	37·0	− 4·4	11	0	22	0	1484	+ 36	34	+ 1
	— CHANNEL ISLANDS	7	18	9 more	197	− 5	31·4	− 2·3	11	− 1	21	− 3	1924	+ 35	44	0

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to *appear* defective.

General Remarks.

Weather was again in a very unsettled condition. Rain was of almost daily occurrence in the more southern and western districts, and rain, sleet or snow in the north. The falls were at times large—especially those experienced over England on Saturday.

Temperature was below the mean in all districts, the deficit ranging from 2° in Scotland N. and the Channel Islands to 4° in Scotland E. and England N.E. and N.W., and 5° in the midland counties and Scotland W. The highest of the maxima were recorded on Saturday, when they varied from 52° in the Channel Islands and England N.W. to 42° in Scotland E. and England N.E. The absolute minima, which were registered on irregular dates, were very low in many inland places. At Newton Reigny on Sunday, the thermometer fell as low as 4°, and readings of 20° or below occurred sometime during the period in most inland localities. In Ireland S. and the Channel Islands, however, the thermometer did not fall below 24° and 31° respectively.

Rainfall was much in excess of the mean over the Kingdom as a whole, but less in Scotland N. In many districts the fall was twice as much as the normal amount.

Bright Sunshine was deficient generally, but somewhat exceeded the mean value for the time of year in England N.E., E. and S. and also in Ireland N. The percentage of the possible duration ranged from 26 in the last-named district, and 24 in England E. to 14 in England N.W., and to between 13 and 6 in Scotland.

Barometer and Wind.—The distribution of pressure during this period was very unstable. At the commencement of the week a rather large and deep cyclonic disturbance off our south-west coasts was travelling south-eastwards to the Bay of Biscay, and the wind was mainly Southerly to South-Easterly and strong in the west and south-west. By Monday morning this disturbance had dispersed, but another and deeper system had approached our north-western coasts, and this, after moving eastwards to the North Sea, and causing strong South-Westerly and Westerly to North-Westerly winds or gales on our southern and western coasts, and Easterly winds in the north, began to fill up slowly, but did not entirely disappear until Friday night. On Saturday another important disturbance approached our western coasts from the Atlantic, and the wind backed to the southward very generally, and increased greatly in force.

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II.—DATA from which the SUMMARY on page 307 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.) Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	32	41·0	36·4	38·8	− 0·6	0	22	7	1·25	+ 0·29	*	*	*	*
	Stornoway	42	24	40·6	30·1	35·6	− 3·3	0	45	6	1·12	− 0·12	5·4	− 0·1	12	− 1
	Wick	47	32	43·7	34·9	39·5	+ 1·5	5	27	7	1·41	+ 0·75	*	*	*	*
	Lairg Ⓢ	41	*25	36·0	30·0	33·1	— 1·6	0	62	6	0·75	— 0·14	*	*	*	*
	Glencarron Ⓢ	40	20	37·2	28·9	33·2	− 3·5	0	62	5	2·19	− 0·08	*	*	*	*
	Fort Augustus Ⓢ	40	20	38·5	27·6	33·3	− 4·7	0	61	6	0·90	− 0·27	0·5	− 1·9	1	− 4
	Fort William Ⓢ	41	21	38·5	30·2	34·5	− 4·7	0	53	6	0·93	− 1·29	1·9	− 1·4	4	− 3
1. SCOTLAND, E.	Nairn	39	23	37·6	28·9	33·4	− 4·1	0	60	5	0·64	+ 0·17	*	*	*	*
	Aberdeen	42	28	40·1	33·7	37·0	− 0·7	0	35	6	1·70	+ 1·04	4·2	− 5·2	9	− 11
	Braemar Ⓢ	35	16	33·8	26·9	30·5	− 3·9	0	81	6	1·09	+ 0·36	*	*	*	*
	Ochtertyre Ⓢ	40	24	36·7	30·1	33·5	− 3·3	0	60	4	2·05	+ 1·02	*	*	*	*
	Leith	41	27	38·6	30·1	34·5	− 4·6	0	53	4	0·72	+ 0·30	*	*	*	*
	Marchmont Ⓢ	40	22	36·1	27·0	31·7	− 4·8	0	72	3	1·25	+ 0·58	7·5	0·0	16	0
2. ENGLAND, N.E.	Alnwick Castle	41	26	38·5	28.7	33·8	− 4·2	0	57	5	1·23	+ 0·59	*	*	*	*
	Durham	—	—	—	—	—	— —	—	—	—	—	—	—	—	—	—
	Shields	42	27	38·3	30·7	34·7	− 4·1	0	51	4	0·56	+ 0·07	*	*	*	*
	Scarborough Ⓜ	40	25	37·7	29·1	33·6	− 5·0	0	59	3	0·90	+ 0·33	10·7	—	21	—
	Spurn Head	42	27	39.3	31·7	35·7	− 3·1	0	44	2	0·83	+ 0·40	*	*	*	*
	Fulbeck (Lincolnshire)	42	16	37·2	26·5	32·1	− 4·7	0	69	6	0·79	+ 0·36	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	43	24	38·1	29·8	34·1	− 2·9	0	55	5	1·53	+ 1·00	11·9	+ 2·5	23	+ 5
	Yarmouth	44	25	39·0	29·6	34·5	− 3·3	0	53	5	1·03	+ 0·51	*	*	*	*
	Geldeston	42	24	39·1	30·0	34·7	− 3·6	0	51	5	0·93	+ 0·49	14·8	+ 3·8	28	+ 7
	Cambridge	44	25	39·8	28·9	34·6	− 3·1	0	52	3	0·77	+ 0·38	10·0	+ 0·4	19	+ 1
	Felixstowe	45	28	40·3	31·3	36·0	− 2·5	0	42	6	0·87	—	15·2†	− †	29†	− †
	Rothamsted	47	21	40·1	25·5	33·1	− 4·5	0	62	5	1·46	+ 0·91	11·5	+ 1·8	22	+ 4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	42	20	37·9	28·3	33·3	− 4·1	0	61	3	1·47	+ 1·01	*	*	*	*
	Loughborough	43	18	39·0	27·4	33·4	− 4·5	0	60	6	1·04	+ 0·53	*	*	*	*
	Colly Weston (Stamford)	43	22	39·4	27·9	33·9	− 3·2	0	57	4	0·89	—	*	*	*	*
	Cheadle Ⓜ	41	14	36·7	26·7	31·9	− 5·0	0	71	5	1·48	+ 0·80	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	42	21	38·0	28·8	33·6	− 4·8	0	59	4	1·42	+ 0·91	12·6	—	24	—
	Churchstoke Ⓜ	43	14	38·3	25·9	32·4	− 5·8	0	67	5	1·09	+ 0·39	7·7	− 1·6	15	− 3
	Hereford Ⓜ	47	17	40·8	26·2	33·8	− 4·8	0	57	5	1·17	+ 0·62	*	*	*	*
	Cirencester	47	17	40·0	24·4	32·5	− 5·1	0	67	5	1·89	+ 1·24	7·5	− 2·0	14	− 4
	Oxford	47	22	40·3	28·0	34·4	− 4·2	0	53	5	1·18	+ 0·70	12·1	+ 2·5	23	+ 5
5. ENGLAND, S	London	49	27	41·7	29·4	35·8	− 3·7	0	43	4	1·11	+ 0·64	4·7†	0·0†	9†	0†
	Swarraton (Alresford) Ⓜ	47	15	40·6	24·7	33·0	− 4·9	0	63	4	1·94	+ 1·24	*	*	*	*
	Dungeness	47	29	44·6	30·7	37·9	− 2.5	7	43	5	1·11	+ 0·65	12·1	—	22	—
	Hastings (St. Leonards)	50	28	44·4	32·1	38·5	− 1·9	7	38	5	1·22	+ 0·58	18·7	+ 5·7	35	+ 11
	Southampton	49	20	43·3	29·8	36·8	− 3·6	4	45	5	1·92	+ 1·21	9·2	− 1·8	17	− 3
	Portland Bill	48	31	45·0	37·6	41·5	− 0·9	8	19	5	1·43	—	*	*	*	*
	Shaftesbury Ⓜ	47	26	40·5	29·8	35·4	− 1·8	0	46	5	1·98	+ 1·25	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	43	25	39·7	31·0	35·5	− 5·0	0	46	6	0·93	− 1·15	*	*	*	*
	Glasgow	40	27	37·2	31·7	34·6	− 4·0	0	52	4	0·91	− 0·02	3·6	− 0·4	8	+ 1
	Glenlee Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	46	22	42·3	31·3	37·0	− 4.4	1	39	7	2·51	+ 1·47	9·0	+ 0·5	18	+ 1
7. ENGLAND, N.W.	Newton Reigny	40	4	36·7	24·0	30·6	− 6·9	0	80	4	2·01	—	9·2	—	19	—
	Stonyhurst	52	18	39·1	29·9	34·7	− 3·3	0	51	6	1·45	+ 0·41	3·0	− 3·0	6	− 6
	Blackpool Ⓜ	45	19	41·6	29·9	36·0	− 3·0	0	42	6	1·41	+ 0·71	6·6	+ 0·6	13	+ 1
	Manchester (Prestwich)	44	20	37·5	29·1	33·5	− 4·7	0	60	6	1·14	+ 0·31	2·0	—	4	—
	Liverpool Obsy. (Bidston)	44	23	40·3	29·9	35·3	− 4·5	0	47	6	0·84	+ 0·28	4·9	—	9	—
	Chester	43	22	40·1	29·7	35·1	− 5·5	0	48	4	0·64	—	*	*	*	*
	Llandudno Ⓜ	47	28	42·6	34·7	38·8	− 2·9	2	27	7	0·84	+ 0·16	5·4	− 3·1	10	− 6
	Holyhead	47	30	43·4	35·9	39·8	− 2·9	4	23	5	1·10	+ 0·25	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	21	42·0	27·7	35·1	− 3·4	0	48	6	1·98	+ 0·75	*	*	*	*
	Pembroke	50	33	46·9	37·6	42·4	− 1·2	21	12	5	0·90	0·00	7·3	− 3·5	14	− 6
	Clifton	48	22	41·7	29·3	35·8	− 3·9	0	43	5	2·07	+ 1·31	*	*	*	*
	Bath	50	20	43·0	26·3	35·0	− 4·7	3	58	5	2·05	—	6·6	—	12	—
	Arlington (N. Devon)	49	25	42·9	30·7	37·0	− 3·2	3	42	5	1·78	+ 0·48	*	*	*	*
	Cullompton Ⓜ	50	20	44·0	26·1	35·4	− 4·1	6	60	6	2·33	+ 1·50	11·2	+ 2·2	21	+ 5
	Falmouth	51	35	46·2	38·0	42·3	− 2·1	19	11	6	2·48	+ 1·24	14·2	+ 1·7	26	+ 3
	Plymouth	51	26	46·5	34·1	40·6	− 2·1	13	33	6	2·22	+ 1·29	11·1	− 0·2	20	0
9. IRELAND, N.	Malin Head	45	31	41·9	34·4	38·3	− 3·4	0	26	6	1·10	—	*	*	*	*
	Edenfel (Omagh)	46	24	40·3	29·1	34·9	− 2·9	0	50	6	1·84	+ 1·00	*	*	*	*
	Blacksod Point	49	32	45·3	36·1	40·9	− 2·2	9	24	7	1·42	—	*	*	*	*
	Markree Castle	49	26	43·3	32·7	38.2	− 1·3	4	35	6	1·94	+ 1·00	12·3	+ 4·3	25	+ 9
	Armagh	47	20	41·1	28·7	35·2	− 3·6	0	48	6	0·67	+ 0·02	12·9	+ 4·3	26	+ 9
	Donaghadee	47	29	42·3	31·9	37·3	− 3·5	1	37	7	0·98	+ 0·33	*	*	*	*
10. IRELAND, S.	Dublin	50	30	42·5	32·2	37·6	− 4·0	1	36	6	0·29	− 0·24	13·1	+ 0·9	25	+ 2
	Parsonstown	49	27	42·9	31·0	37·2	− 2.6	3	41	7	0·85	+ 0·15	16·1	+ 5·7	31	+11
	Kilkenny	51	24	44·0	30·4	37·5	− 3·2	6	44	4	0·97	+ 0·21	*	*	*	*
	Roche's Point	50	33	46·3	37·4	42.0	− 1·9	12	13	5	1·26	+ 0·04	*	*	*	*
	Valencia	50	32	47·0	37·1	42·3	− 2·8	23	14	7	2·15	+ 0·72	4·6	− 5·5	9	−10
	Killarney	?	28	?	34·8	?	?	?	?	6	1·79	+ 0·20	*	*	*	*
	Foynes	49	30	44·8	34·9	40·1	− 1·7	8	29	6	1·17	+ 0·19	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	48·1	40·7	44·6	− 2·1	24	4	7	1·36	+ 0·46	13·1	—	24	—
	Jersey	52	31	48·0	36·6	42·5	− 1·0	26	15	6	2·18	+ 1.35	10·2	− 4.1	18	− 7

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

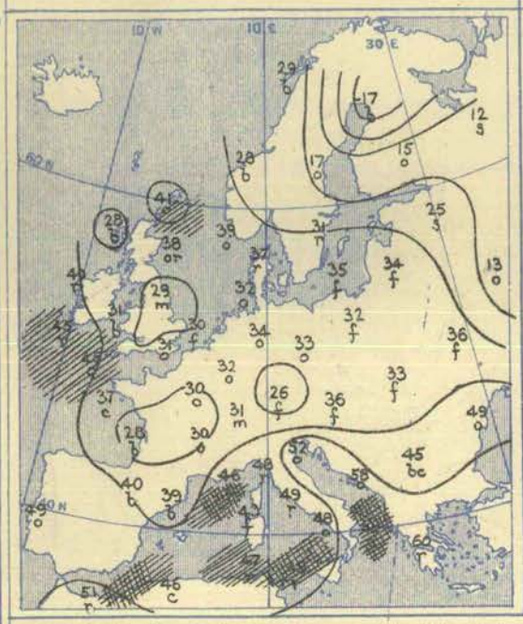
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

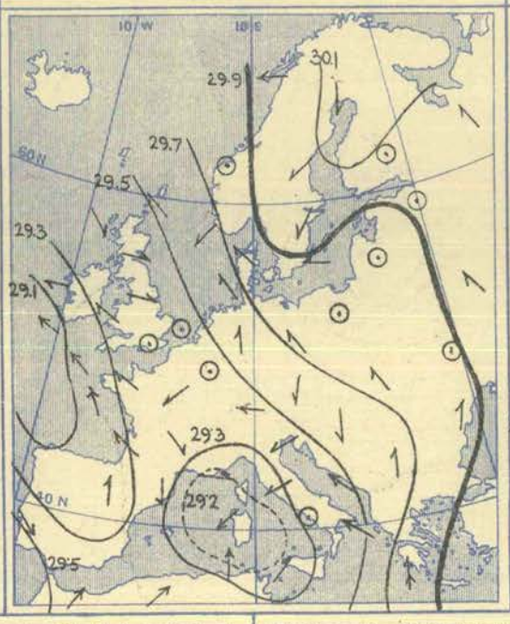
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 22nd December.

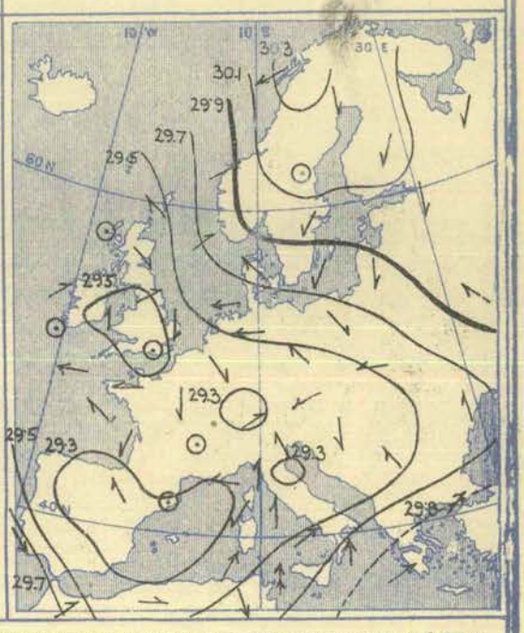
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull very generally, with rain in parts of Scotland and Ireland, and fog over England. Fog also prevalent on the Baltic shores and in some central European districts. Rain falling at Oran and snow at Aumale, as well as at St. Petersburg and Archangel. Rain during day in many parts of our Islands, France, and Algeria, and also in Portugal and Italy; as much as 3·5 ins. measured at Brindisi.

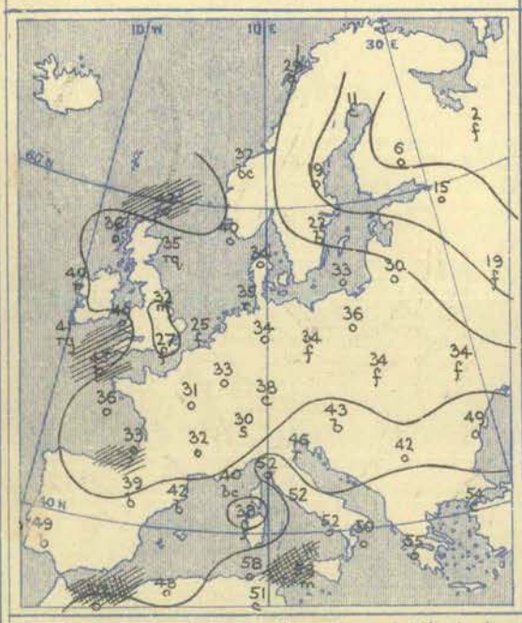
Temperature rising in Ireland and on our south coast, fallen in most other regions. Morning readings highest, 60° at Athens, 59° at Brindisi, and 51° in western Algeria, 45° on our south-west coasts. Lowest, – 17° at Haparanda, + 1° at Uleaborg, 12° at Archangel, and 13° at Moscow; below 32° over northern Europe generally, as well as in central France and at Munich, and the inland parts of Great Britain. Rising during day to between 45° and 48° at our own south-western stations, to 55° or rather higher in Italy, to 63° at Palermo, and to 64° at La Calle. Not reaching 32° at Nantes and Munich.

Wind in morning South-Easterly and strong to a gale over our south-western coasts, and strong from the same quarter in the west of France. Light and variable over Great Britain. Light and chiefly Northerly or Easterly over northern and central Europe. A cyclonic circulation of considerable strength over Italy, the Riviera, and the neighbouring portion of the Mediterranean. A Southerly gale prevailing at Athens, and North-Westerly breezes in Spain. Wind decreasing and backing on our south-west coasts later, and also at Athens, but Southerly gale setting in in Sicily.

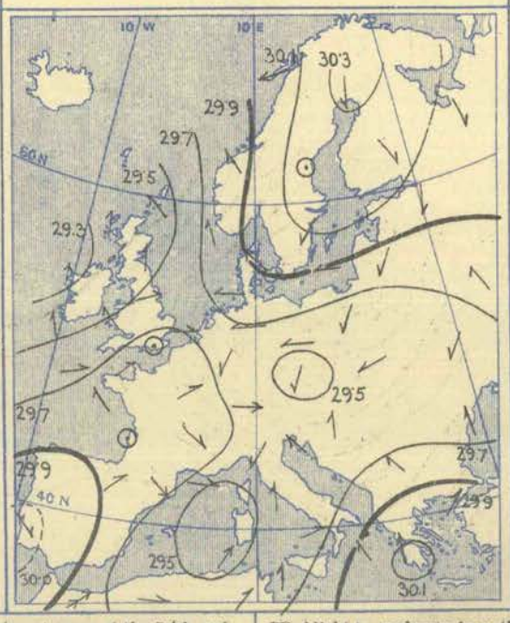
Barometer at 8 a.m., 30·1 ins. and upwards over Lapland, and also in another area to the eastward of Moscow. Lowest, 29·1 ins. and less off our south-west coasts, and 29·2 ins. and less in another system embracing the Riviera, Corsica, Sardinia, and the adjacent parts of the ocean; 29·4 ins. and less in two shallow areas over north Britain. Both of the south-western and the Mediterranean low pressure systems partially dispersing later, and barometer rising briskly in the north of Scandinavia.

Monday, 23rd December.

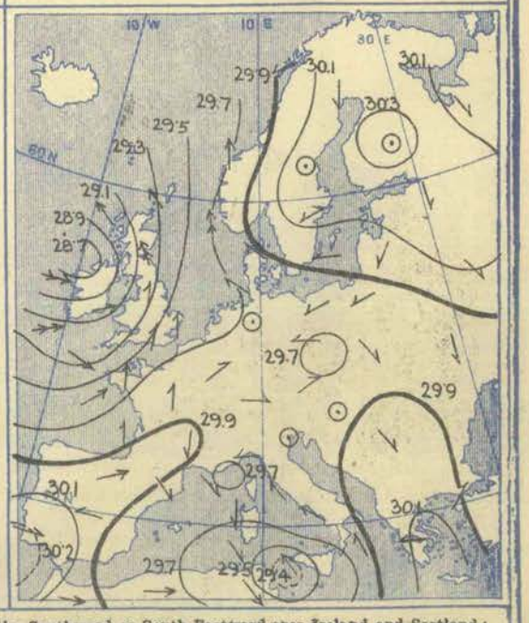
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy over the greater part of England; rainy at many of the Irish and Scotch stations. Cloudy or dull over the Continent as a whole, with fog in many parts of Russia, rain at several isolated stations in the central and southern countries, and snow at Munich; fine in the extreme south of France. Rain or sleet falling later over nearly the whole of western, central, and southern Europe, heavily in the western parts of France; as much as 3·5 ins. reported at La Coubre, and 2·4 ins. at Le Mans.

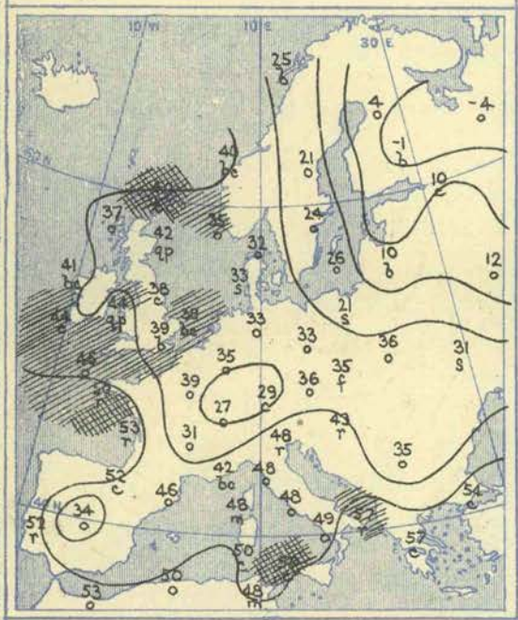
Temperature risen over central and southern Europe, changed very irregularly elsewhere. Morning readings highest, 58° at Cagliari, 55° at Palermo and Patras, and 54° at Constantinople; above 45° in most of the southern countries. Lowest, 2° at Archangel, 6° at Kuopio and Helsingfors, and 10° at Hangö; considerably below the freezing point over Sweden and northern Russia generally, and also over the inland parts of England, the lowest morning reading reported in our Islands being 21° at Bath. Daily maxima below 40° at several of our own northern and central stations, but thermometer exceeding 45° on our extreme western and southern coasts.

Wind light to moderate from the Southward or South-Eastward over Ireland and Scotland; South-Westerly over the greater part of England. Easterly or North-Easterly over northern Europe generally, but South-Easterly in the west of Norway. South-Easterly in Austria; Southerly over the greater part of Italy and Greece; Westerly or North-Westerly over the Spanish Peninsula and the South of France. Subsequently increasing to a gale over nearly the whole of our Islands—from the Westward in the west, from the South-Westward in the south, and from the Southward or South-Eastward in the east and north.

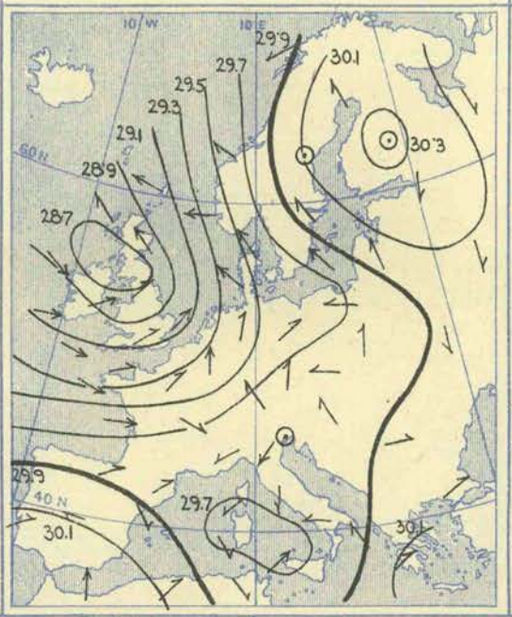
Barometer highest, (1) 30·2 ins. and upwards over Finland and the north of Sweden; (2) 30·1 ins. and upwards over the south of Greece; (3) 30·0 ins. and upwards over the south-western parts of the Spanish Peninsula. Lowest, 29·3 ins. and less in a cyclonic disturbance lying off our own extreme north-west coast; 29·5 ins. and less in two other systems lying respectively over north-western Austria and over the western part of the Mediterranean. Disturbance off north-west coast subsequently advancing eastwards; barometer in north-west of Ireland falling below 28·7 ins., and gradients becoming steep over the whole Kingdom.

Tuesday, 24th December.

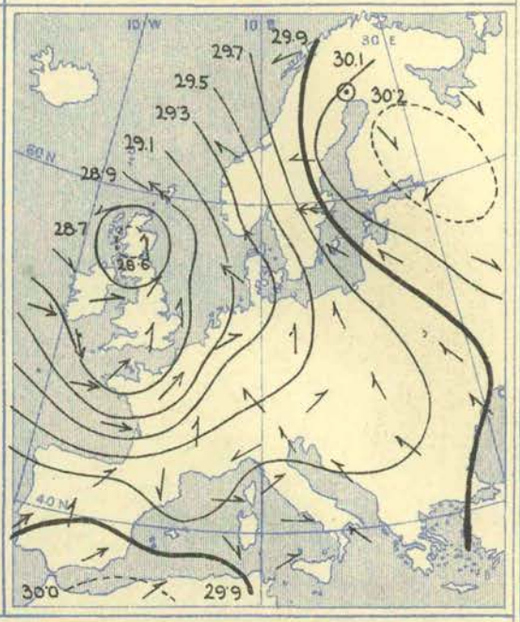
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very cloudy or dull generally, but clear in a few isolated localities. Showers of rain or sleet falling at several of our own northern and western stations; rain in the north and west of France, at Brindisi, Patras, Trieste, and Buda-Pesth, and snow at Memel and Kief. Considerable falls of rain over the United Kingdom, France, and the Netherlands later, and smaller quantities in Germany and Austria. Fog appearing over south Germany and eastern Austria.

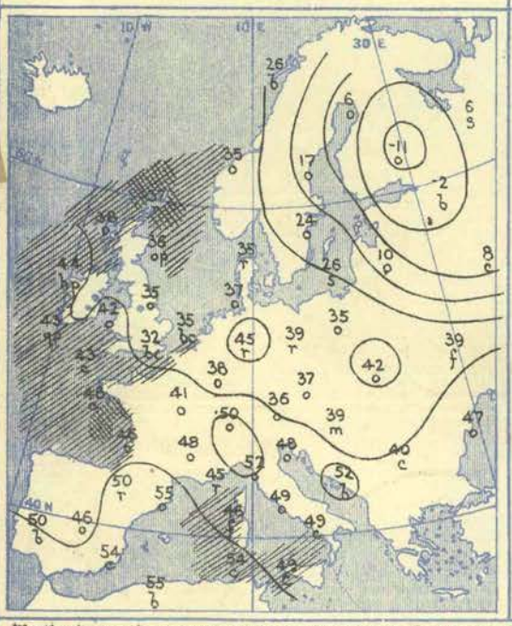
Temperature at 8 a.m., highest, 57° at Athens and Brindisi, and 50° or above at several Mediterranean stations, as well as in the west of France; 49° at Jersey. Lowest −4° at Archangel, −1° at Kuopio and Helsingfors, and below 32° over the north and east of Europe generally, and also in the east of France and at Munich. Below 40° in most parts of the United Kingdom. Daily maxima below 40° at some of the Scotch stations, and below 45° on all but our extreme western and southern coasts. Thermometer exceeding 50° in many parts of southern Europe, and reaching 63° at Palermo.

Wind in morning circulating round a baric minimum in the north of our Islands, and also round another system over the Mediterranean. Fresh or strong in force over the United Kingdom and the south of Scandinavia, with a gale at Skudesnaes. Fresh or strong over southern Europe, with a gale at Palermo. Light and variable anticyclonic airs prevailing over Russia. Northerly gale springing up later at the mouth of the English Channel, and strong South-Easterly gale in Caithness and the Shetlands.

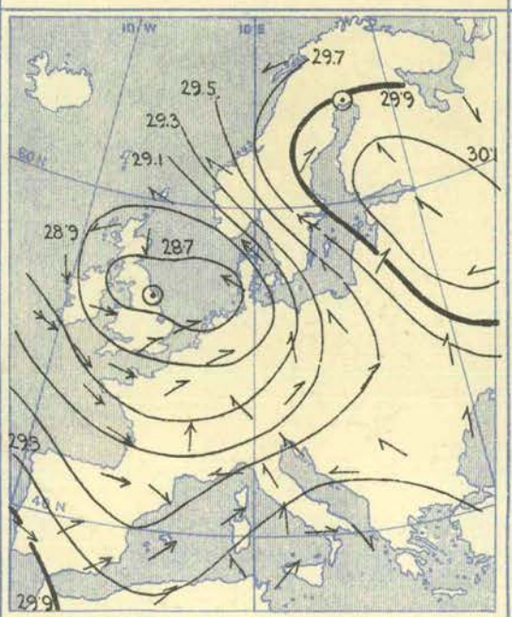
Barometer highest, 30·3 ins. and upwards over Finland, and 30·1 ins. and upwards over the south of Spain, Morocco, and the western parts of Algeria and the Mediterranean. Lowest, 28·6 ins. and less in a deep cyclonic system over the south of Scotland, and 29·7 ins. and less in a similar, but shallower, system lying over the Tyrrhenian Sea. Cyclonic disturbance over Scotland moving slowly north-eastwards during day; small secondary systems forming over the Channel and the south of England, and barometer becoming very low over whole Kingdom; reading of 28·50 ins. registered at Yarmouth at 2 a.m. next day.

Wednesday, 25th December.

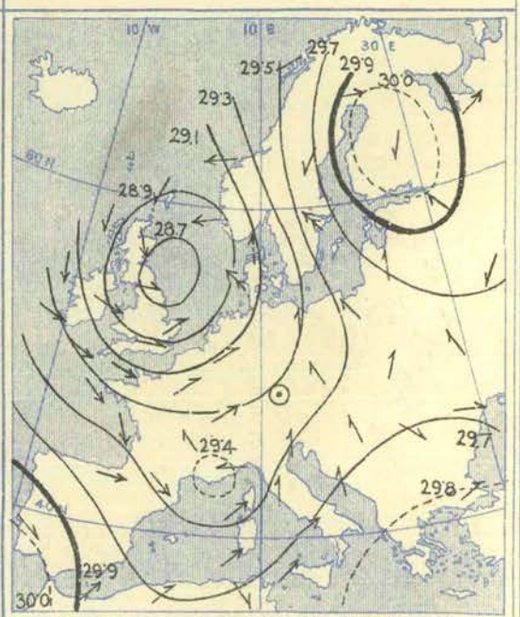
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning temporarily fine in the south-east of England, but cloudy or dull over our Islands and the Continent generally, with rain in many parts of the western and central countries, and snow at Archangel, Faerder, and Wigby. Fog reported at some of the Polish and Austrian stations. Rain falling during day over nearly the whole of western and southern Europe, heavily in some parts of Italy; hail or sleet reported at several of our own stations. Thunderstorm occurring at Biarritz at night.

Temperature fallen over Great Britain and the west of France, risen over Denmark, Germany, the Netherlands, and central France; changed irregularly elsewhere. Morning readings highest, 59° at Palma, 55° at Barcelona and Algiers, and 54° at Cagliari, above 50° in most parts of southern Europe. Lowest −11° Fahr. at Kuopio, −2° at St. Petersburg, and 6° at Archangel and Uleaborg; below the freezing point over northern Europe generally, and very little above it in many parts of Great Britain. Remaining below 40° all day at several of our own northern and central stations, and below 45° on all but our south-west coast. Exceeding 50° over the west of France and southern Europe generally.

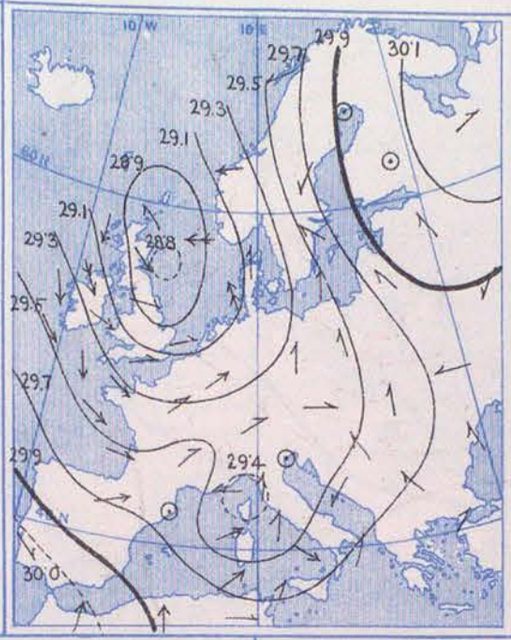
Wind strong from the North-Westward on the west coasts of our Islands and France; South-Westerly over central France, the Netherlands, and the eastern and central parts of England. Strong from the Eastward or South-Eastward over northern Europe, and also in the north of Scotland, with a gale in the south of Sweden. South-Westerly in Spain, variable in Italy, South-Easterly in Austria. Subsequently increasing to a strong gale from the Eastward in Norway; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone over northern and central Russia, 29·9 ins. and upwards over the south-west of Spain. Lowest, 28·7 ins. and less in a large and rather complex cyclonic system, with its central area over the north-east of England and the North Sea. Gradients very steep over Scandinavia, Denmark, and the eastern part of the North Sea. Disturbance moving slowly northwards during day, and beginning to disperse; small, shallow depression appearing over the extreme south of France.

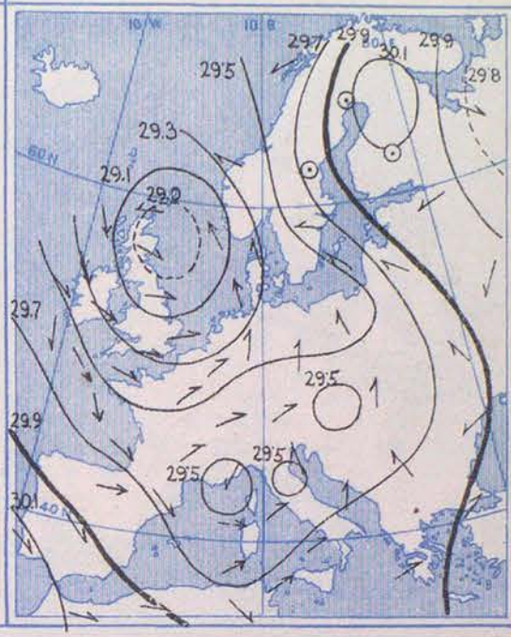
Thursday, 26th December.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in some parts of England, cloudy or dull in nearly all other regions. Rainy in the north and west of our Islands, at Biarritz, Munich, Prague, and Buda-Pesth; snow falling at Stockholm and Archangel. Rain occurring later at most of our own western and northern, and at many of the Continental stations; heavily at Biarritz and Naples.

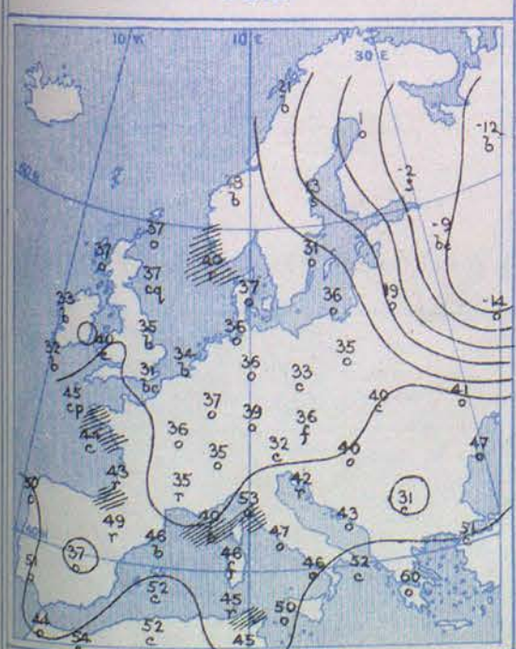
Temperature at 8 a.m., highest, 57° at Cagliari, 56° at Rome and Naples, and 55° at Oran; 45° over the Bay of Biscay and our south-west coasts. Lowest -14° at Kuopio—7° at St. Petersburg, and much below the freezing point over northern Europe generally. Lowest in our Islands, 33° in London. Thermometer remaining below 40° all day on some parts of our north and north-west coasts, and below 45° in most other parts of the Kingdom. Maxima exceeding 50° over southern Europe generally, and reaching 66° at Palermo.

Wind in morning North-Westerly and Westerly over the United Kingdom, and strong to a gale in west; Westerly and South-Westerly over France, and South-Easterly to Easterly, strong to a gale, over Denmark and the South of Scandinavia. Another cyclonic circulation of fresh or strong winds over southern Europe. Wind moderating later on our own extreme western coasts; no important change occurring elsewhere.

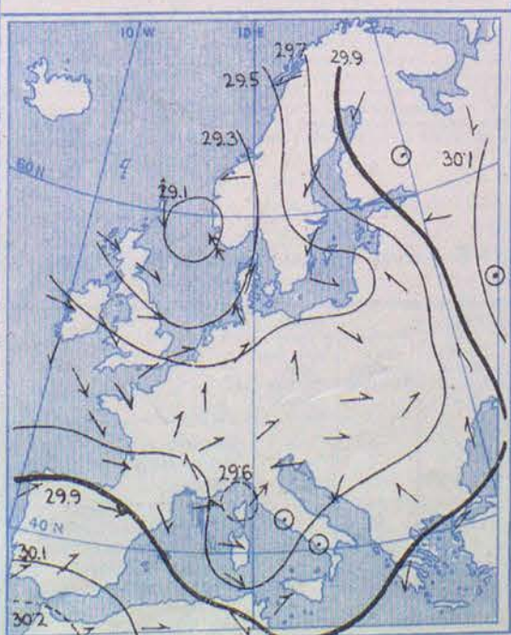
Barometer at 8 a.m., highest, 30·1 ins. and upwards over north-western Russia, and above 30·6 ins. over the south-west of Spain. Lowest, 28·8 ins. and less in a cyclonic disturbance off the east of Aberdeen, and below 29·4 ins. in a similar system lying over northern Italy, the Riviera, and the Gulf of Genoa. Cyclonic system off the Scotch coasts dispersing gradually during day; no material change occurring in any other part of Europe.

Friday, 27th December.

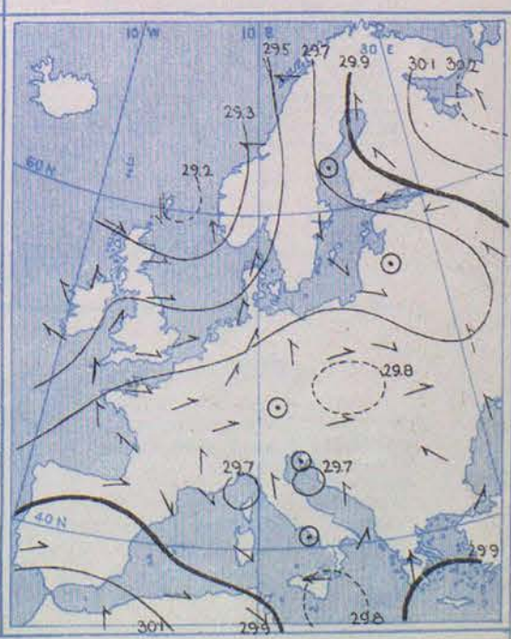
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many parts of England and Ireland, cloudy or dull in almost all other regions, with showers in the north of Scotland, rain at Skudesnaes and in the south-west of France, as well as at Trieste and La Calle, and snow in Finland. Rain falling during day in most parts of our Islands, France, and Italy, and snow in some northern localities.

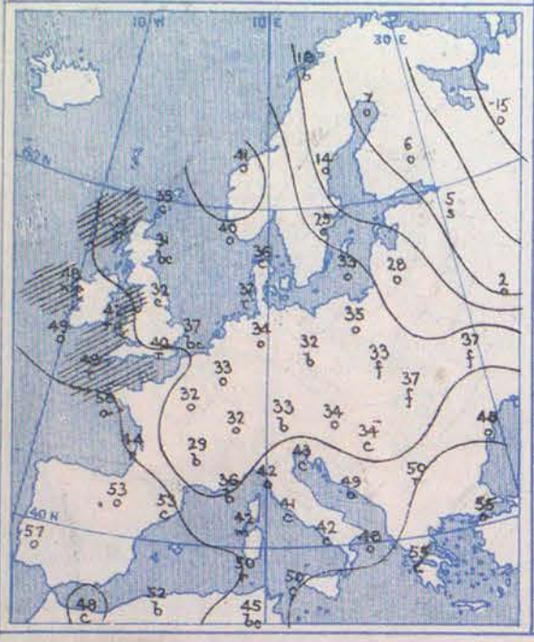
Temperature at 8 a.m., highest, 60° at Patras, and above 50° at many Mediterranean stations, 49° at Biarritz, 45° at Scilly. Lowest -14° at Moscow -12° at Archangel -9° at St. Petersburg, and much below 32° over northern Europe generally; 31° at Turin, 37° at Nice. Lowest in and much below 32° over northern Europe generally; 31° at Turin, 37° at Nice. Lowest in our Islands, 28° at Parsonstown, and 30° at Bath. Rising later to 49° or 50° on our south-western coasts, and in the south of France, to between 55° and 60° in Italy, and to 64° at Tunis. Remaining below 32° over the northern parts of Russia and Scandinavia, and not much exceeding it at several central European stations.

Wind in morning light or moderate from between North-West and South-West over the United Kingdom, South-Westerly to Southerly over the Netherlands and Denmark, and strong from South-East in the south-west of Norway. Mainly Easterly over northern, and light and variable over central Europe. A moderate cyclonic circulation over the southern parts of France, Italy, and the neighbouring Islands. Not much change generally during day, but wind backing to South on our western coasts.

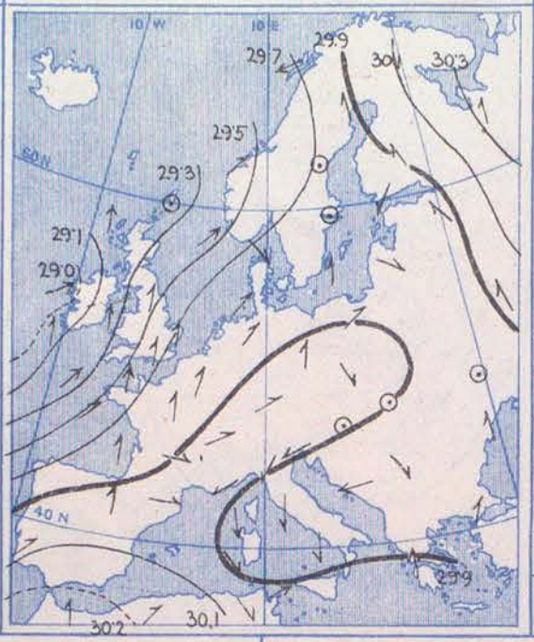
Barometer at 8 a.m., highest, 30·1 to 30·2 ins. over the south of Spain, western Algeria, and Morocco, and 30·1 ins. and more over the east of Russia. Lowest, 29·1 ins. and less in a cyclonic system lying between the Shetlands and Norway, and 29·6 ins. and less in another system over the Gulf of Genoa. Northern disturbance filling up somewhat during day, but barometer falling decidedly in Ireland. No material change in the distribution of pressure elsewhere.

Saturday, 28th December.

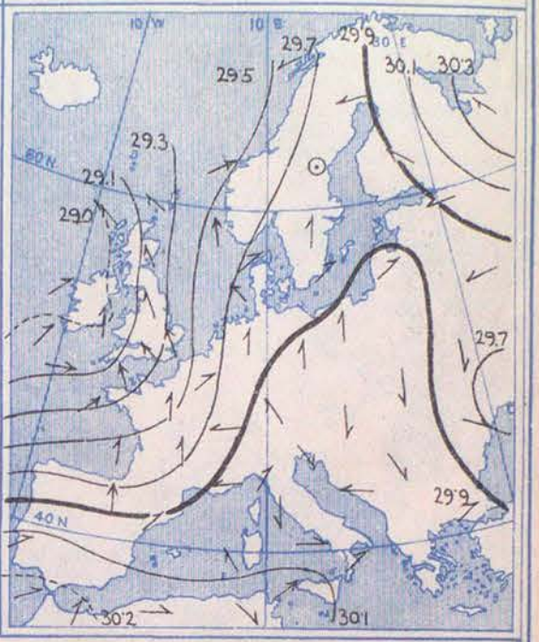
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair on the Algerian coast, cloudy or dull elsewhere. Rain falling over Ireland, England, the west of France, Fanö, Cagliari, and Hermanstadt, and snow in Finland. Foggy over central Europe. Heavy rain later in many parts of the United Kingdom and France, and snow in several Russian and central districts.

Temperature risen quickly over Ireland, England, the north-west of France, and central Russia, and also in Transylvania. 8 a.m. readings, highest, 57° at Lisbon, 55° at Constantinople and Athens, 53° at Barcelona, 49° on our own south-west coasts. Lowest, – 15° at Archangel, + 2° at Moscow, 5° at St. Petersburg, 11° at Haparanda, and 18° at Bodö, 29° at Lyons, and 32° at Paris and Berlin. Rising during day to 52° at Scilly, to between 50° and 55° in Italy, to 61° at Biarritz, and to 66° at Algiers. Remaining much below freezing point over northern Europe, and not much exceeding that value over central Europe.

Wind in morning Southerly and fresh to strong in force over the United Kingdom and its immediate neighbourhood. Moderate to strong from East over the Adriatic and Italy, from North-West and North over Corsica and Sardinia, and from West-South-West in Sicily. Light from the Southward in southern Russia, and a weak cyclonic circulation over the Baltic Provinces. Latter current dying out later, and wind veering to West on our south-west coasts; no change of importance elsewhere.

Barometer at 8 a.m., highest, 30·2 ins. and upwards over the White Sea and north-eastern Russia, and also over Morocco and western Algeria. Lowest, 29·0 ins. and less off the north-west of Ireland, 29·7 ins. and less in the Gulf of Riga, and below 29·8 ins. in a band stretching from the Adriatic across the Balkan Principalities to southern Russia. Low pressure spreading over the United Kingdom from the westward later, but disturbance near Riga dispersing. Low pressure band over southern Europe moving eastwards, forming a well-defined cyclonic disturbance a little to the northward of the Black Sea.

GENERAL NOTES.

During this period the barometer has been comparatively high over northern and north-eastern Europe, and the south-western part of the Iberian Peninsula, while the intervening regions have been visited by cyclonic disturbances. The deepest of these systems appeared over the United Kingdom, but there were others of considerable depth and energy over the Mediterranean and southern Europe—more especially during the earlier days of the week. The chief disturbances over the British Islands were one that moved south-eastwards from our south-west coasts to the Bay of Biscay and the south-west of France on Sunday, and another which, after reaching our north-west coasts from the Atlantic on Monday, and then travelling slowly eastwards to the North Sea, commenced to fill up very gradually, and at the same time to move slowly northward and finally dispersed on Friday night. This system was accompanied by strong winds and gales—chiefly from the North-Westward in the west, and from South-West and West on our southern and eastern coasts—and rather heavy rains or sleet. The Mediterranean disturbances produced gales in Italy, the Tyrrhenian Sea, and the neighbouring Gulfs and Islands, accompanied by heavy falls of rain. Temperature was rather low as a whole, but subject to frequent fluctuations. Over north and north-eastern Europe it was frequently below zero, and sharp frost was often experienced in the central countries and the inland parts of France. In the British Islands, however, the thermometer, after the first day or two, was rarely below 32°. At the end of the week another important cyclonic system had reached our western coasts, occasioning a rapid rise of temperature and a Southerly current of wind over north-western Europe generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	1·3	– 4·4	3	– 11	BRIGHTON	11·3	0·0	21	0
STRATHPEFFER SPA	3·5	– 3·4	8	– 7	WORTHING	10·5	—	19	—
EDINBURGH	0·4	– 5·1	1	– 10	BOGNOR	13·4*	—	25*	—
MORPETH	14·9	—	30	—	WATERGATE (Emsworth)	11·5	—	21	—
NEWCASTLE-ON-TYNE	8·8	—	18	—	WESTBOURNE (Emsworth)	13·5*	+ 2·0	25*	+ 4
OSWALDKIRK (Yorkshire)	9·9	+ 2·1	20	+ 5	VENTNOR HOSPITAL	13·7	+ 2·5	25	+ 5
YORK	8·8	+ 3·1	18	+ 7	BOURNEMOUTH	11·4	—	21	—
LOWESTOFT	11·0	—	21	—	SOUTHPORT	7·3	—	15	—
HOLLESLEY BAY	14·5	—	27	—	RHYL	15·0*	—	29*	—
SHEFFIELD	6·3	—	12	—	COLWYN BAY	—	—	—	—
WORKSOP	6·5	– 0·6	13	– 1	ABERDOVEY	11·9*	—	23*	—
THURCASTON (Leicestershire)	4·3	– 3·1	8	– 6	TENBY	8·0	– 2·4	15	– 5
MARGATE	? 13·0	? + 3·6	? 26	? + 8	NEWQUAY	9·1	– 2·2	17	– 3
BROADSTAIRS	—	—	—	—	TORQUAY	—	—	—	—
EASTBOURNE	12·9	+ 0·6	24	+ 2	CAHIR (Duneske)	—	—	—	—
					GUERNSEY	10·9*	+ 0·[illegible]	20*	+ 2

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

OFFICIAL COPY.

No. 150.

WEEKLY WEATHER REPORT,

1901.

APPENDIX III.

AVERAGES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE,

Based on Observations taken during 1866–1900, as follows:—

	Period.
Rainfall	35 years, 1866–1900
Rain Days	30 years, 1871–1900
Temperature—Maximum	30 years, 1871–1900
Minimum	30 years, 1871–1900
Mean	30 years, 1871–1900
Bright Sunshine, Duration	20 years, 1881–1900
Bright Sunshine, Percentage	20 years, 1881-1900

These Tables are in continuation of those issued in the Preface to the Weekly Weather Report for 1895.

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TABLE I.—Showing the Average Temperatures for Each Month and for the Whole Year, at Certain derived from Observations extending

The averages entered in this Table are derived from daily observations extending over 30 years. At certain stations the actual observations do not cover the whole station the name of the station is marked by an asterisk (*).

Districts.	Stations.	January.			February.			March.			April.			May.			June.		
		Max.	Min	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
		°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
0. SCOTLAND, N. ..	Sumburgh Head	42·6	35·3	39·0	42·2	34·4	38·3	42·8	34·1	38·4	46·2	36·9	41·6	50·2	40·3	45·3	54·5	45·1	49·8
	Deerness(Orkney)	42·5	35·2	38·9	42·2	35·0	38·6	43·4	35·0	39·2	47·1	37·9	42·5	51·3	41·6	46·5	56·3	46·4	51·4
	Wick	42·3	33·1	37·7	43·0	32·9	38·0	45·0	33·9	39·4	49·4	37·2	43·3	53·9	40·8	47·4	58·9	45·7	52·3
	Stornoway ..	43·1	34·2	38·7	43·8	34·2	39·0	45·0	34·2	39·6	49·2	37·3	43·3	53·5	41·0	47·2	58·5	46·2	52·4
	Lairg	40·4	29·3	34·9	42·0	29·2	35·6	44·7	29·9	37·3	50·8	33·5	42·2	56·0	37·8	46·9	62·2	43·7	53·0
	*Glencarron ..	41·8	32·2	37·0	42·6	31·3	37·0	44·2	32·1	38·2	49·9	36·0	43·0	56·4	39·8	48·1	61·1	46·7	53·9
	*Fort Augustus ..	43·1	32·9	38·0	44·1	32·4	38·3	45·8	33·5	39·7	51·8	37·6	44·7	57·1	41·9	49·5	62·4	47·8	55·1
	*Fort William ..	43·3	33·8	38·6	44·4	33·6	39·0	46·7	34·2	40·4	51·4	38·8	45·1	57·3	42·8	50·1	62·5	47·8	55·2
1. SCOTLAND, E. ..	Nairn	42·3	32·2	37·3	43·6	32·1	37·9	46·1	33·3	39·7	51·6	36·8	44·2	56·6	41·5	49·1	62·4	47·3	54·9
	Aberdeen.. ..	42·1	33·0	37·6	43·2	33·2	38·2	45·8	34·3	40·1	49·8	38·1	44·0	54·8	41·8	48·3	60·9	47·3	54·1
	Braemar	39·4	28·7	34·1	40·3	29·1	34·7	42·7	29·9	36·3	48·2	33·6	40·9	54·5	37·6	46·0	61·6	44·1	52·8
	Ochtertyre ..	41·9	31·3	36·6	43·7	32·1	37·9	46·9	33·2	40·0	52·9	36·8	44·9	59·2	41·0	50·1	65·4	47·1	56·3
	Leith	44·1	33·6	38·9	45·6	33·9	39·8	48·0	34·5	41·3	52·5	38·0	45·3	57·8	42·4	50·1	63·8	48·2	56·0
	Marchmont ..	41·3	31·0	36·2	42·8	31·7	37·3	45·6	32·5	39·1	50·5	36·0	43·2	55·9	40·0	48·0	62·3	45·9	54·1
2. ENGLAND, N.E.	Alnwick Castle..	41·8	33·3	37·6	42·8	33·9	38·4	45·1	34·9	40·0	48·7	37·9	43·3	53·9	42·0	48·0	60·7	48·1	54·4
	Shields	43·0	33·8	38·4	44·1	34·4	39·3	46·3	34·8	40·6	49·7	38·5	44·1	54·5	42·6	48·5	60·7	48·6	54·7
	Durham	41·6	31·7	36·7	43·5	32·4	38·0	47·0	33·2	40·1	52·1	36·3	44·2	57·5	40·3	48·9	65·2	46·7	56·0
	Scarborough ..	42·2	34·2	38·2	43·5	34·9	39·2	46·3	35·8	41·1	50·0	39·3	44·7	55·2	43·3	49·3	61·8	49·6	55·7
	York	42·6	32·3	37·5	44·6	33·2	38·9	48·4	33·8	41·1	54·1	37·6	45·9	59·7	42·2	51·0	66·5	48·6	57·6
	*Spurn Head ..	41·6	34·4	38·0	42·5	35·5	39·0	45·0	36·5	40·8	48·9	40·4	44·7	54·3	45·0	49·7	60·6	51·3	56·0
	Fulbeck	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E. ..	Hillington ..	41·8	31·5	36·7	44·3	32·9	38·6	49·1	33·6	41·4	54·7	37·4	46·1	60·4	41·8	51·1	67·7	48·1	57·9
	Yarmouth ..	41·3	33·3	37·3	42·5	34·1	38·3	45·3	35·3	40·3	49·5	40·0	44·8	55·2	44·8	50·0	62·1	51·1	56·6
	*Geldeston ..	42·9	32·7	37·8	44·5	33·7	39·1	48·6	34·3	41·5	53·5	38·0	45·8	59·3	42·4	50·9	66·0	48·7	57·4
	Cambridge ..	43·1	31·4	37·2	45·8	32·2	39·0	50·6	32·9	41·8	56·7	37·2	47·0	62·3	42·1	52·2	69·1	48·7	58·9
	Rothamsted ..	41·8	31·9	36·9	44·0	32·9	38·5	48·4	33·5	41·0	54·5	37·2	45·8	60·1	41·9	51·0	67·0	48·4	57·7
4. MIDLAND COS.	*Bawtry	42·3	32·0	37·2	44·8	33·2	39·0	48·7	33·8	41·3	55·1	37·3	46·2	60·9	41·3	51·1	67·7	48·2	57·9
	Cheadle	40·8	32·0	36·4	42·8	32·9	37·8	46·5	33·8	40·2	52·4	37·4	44·9	57·6	41·7	49·7	63·9	47·9	55·9
	Loughborough ..	42·8	32·1	37·5	45·4	33·0	39·2	49·7	33·8	41·8	55·7	37·8	46·8	61·6	42·4	52·0	68·8	49·0	58·9
	*Colly Weston ..	42·8	30·5	36·6	45·4	32·1	38·8	50·1	32·9	41·5	55·7	37·5	46·6	61·7	41·9	51·8	68·7	47·8	58·2
	*Churchstoke ..	42·7	32·3	37·5	44·5	33·2	38·8	47·6	33·3	40·5	53·2	36·4	44·8	58·9	40·4	49·7	65·5	46·9	56·2
	*Birmingham ..	41·7	33·5	37·6	43·5	34·5	39·0	46·9	35·1	41·0	52·6	38·7	45·7	58·3	43·1	50·7	65·3	49·6	57·5
	*Hereford	43·6	32·9	38·2	45·6	33·9	39·8	49·6	34·7	42·2	55·3	38·3	46·8	61·5	42·5	52·0	68·3	48·8	58·6
	Oxford	42·9	33·3	38·1	45·2	34·3	39·8	49·3	34·6	42·0	55·3	38·9	47·1	60·9	43·5	52·2	67·4	50·1	58·8
	*Cirencester ..	42·5	32·0	37·3	44·2	32·7	38·5	48·0	33·3	40·7	54·2	37·0	45·6	60·1	41·5	50·8	66·7	47·6	57·1
5. ENGLAND, S. ..	London	43·8	33·6	38·7	45·8	34·7	40·3	50·1	35·3	42·7	56·6	39·9	48·3	62·6	44·5	53·6	69·5	50·9	60·2
	*Swarraton ..	42·3	32·2	37·3	44·3	33·3	38·8	48·0	33·8	40·9	54·0	37·4	45·7	59·8	41·3	50·6	65·8	47·8	56·8
	Dungeness ..	43·3	35·1	39·2	44·5	35·6	40·1	46·7	36·6	41·7	51·6	41·3	46·5	57·3	46·2	51·8	63·2	52·4	57·8
	Hastings	43·2	35·3	39·3	44·2	36·2	40·2	47·5	37·0	42·2	52·9	41·1	47·0	58·4	45·4	51·9	64·2	51·5	57·9
	Southampton ..	44·3	34·9	39·6	46·5	35·9	41·2	50·4	36·4	43·4	56·3	40·5	48·4	62·2	44·8	53·5	68·3	51·2	59·8
	Hurst Castle ..	44·8	36·0	40·4	45·8	36·5	41·2	48·0	37·1	42·6	52·9	41·4	47·2	59·1	46·0	52·6	65·0	52·3	58·7
	Shaftesbury ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Factors for computing Mean Temperature. *See* foot note.		0·520			0·500			0·485			0·476			0·470			0·465		

The third column under the name of each month gives the average of the readings of the maximum and minimum thermometers for that month. A closer approximation to the true a certain fraction of the difference between it and the average maximum reading. This fraction is differen

of the STATIONS which furnish RETURNS for the WEEKLY WEATHER REPORTS and MONTHLY SUMMARIES, over the 30 Years 1871–1900.

period, and in these cases the 30-year averages have been computed by comparison with neighbouring stations. If more than 4 years' observations are missing for any In no instance is the period of actual observation less than 15 years.

July.			August.			September.			October.			November.			December.			Whole Year.			STATIONS.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	
°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	
57·6	48·3	53·0	57·7	48·6	53·2	54·9	46·2	50·6	49·8	41·6	45·7	46·1	38·5	42·3	43·2	35·9	39·6	49·0	40·4	44·7	Sumburgh Head.
59·0	49·6	54·3	58·6	49·8	54·2	55·7	47·3	51·5	50·3	42·5	46·4	46·0	38·8	42·4	43·2	35·8	39·5	49·6	41·2	45·4	Deerness.
61·8	48·9	55·4	61·4	48·6	55·0	58·0	45·7	51·9	51·8	40·5	46·2	46·7	36·8	41·7	42·9	33·4	38·2	51·2	39·8	45·5	Wick.
60·3	49·1	54·7	60·2	49·1	54·7	56·7	45·7	51·2	51·1	40·3	45·7	46·8	37·4	42·1	43·7	34·6	39·2	51·0	40·3	45·7	Stornoway.
63·4	46·8	55·1	63·2	46·7	55·0	59·3	42·4	50·9	51·7	37·0	44·3	45·2	32·9	39·1	40·6	28·7	34·7	51·6	36·5	44·1	Lairg.
61·5	48·9	55·2	61·6	48·8	55·2	58·3	44·3	51·3	51·2	39·2	45·2	45·6	35·6	40·6	41·5	32·1	36·8	51·3	38·9	45·1	*Glencarron.
64·3	49·8	57·1	63.9	50·4	57·1	61·1	45·5	53·3	53·3	40·1	46·7	46·9	36·6	41·7	43·0	32·9	38·0	53·1	40·1	46·6	*Fort Augustus.
63·8	50·5	57·1	63·8	51·2	57·5	60·6	46·6	53·6	53·5	41·2	47·4	47·7	37·6	42·7	44·1	34·5	39·3	53·3	41·0	47·2	*Fort William.
64·5	50·3	57·4	63·9	49·9	56·9	59·8	45·9	52·9	52·2	39·8	46·6	46·3	35·6	41·0	42·6	32·5	37·6	52·7	39·8	46·2	Nairn.
63·7	50·8	57·3	63·1	50·2	56·7	59·4	46·6	53·0	52·5	41·2	46·9	46·6	37·1	41·9	42·4	33·3	37·9	52·0	40·6	46·3	Aberdeen.
62·8	47·3	55·0	61·5	46·6	54·0	56·9	42·6	49·8	49·3	37·0	43·2	43·4	33·0	38·2	40·0	28·9	34·4	50·0	36·5	43·3	Braemar.
67·2	50·3	58·7	65·9	49·5	57·7	61·2	45·6	53·4	53·3	39·4	46·4	46·5	35·4	40·9	42·3	31·6	37·0	53·9	39·5	46·7	Ochtertyre.
66·6	51·4	59·0	66·0	51·4	58·7	62·2	47·5	54·9	54·6	41·5	48·0	48·5	37·5	43·0	44·5	34·1	39·3	54·5	41·2	47·9	Leith.
65·1	49·2	57·2	64·3	48·8	56·6	60·0	45·1	52·6	52·0	39·6	45·8	45·8	35·3	40·6	41·5	31·4	36·5	52·3	38·9	45·6	Marchmont.
64·1	51·6	57·9	63·4	51·2	57·3	59·3	47·5	53·4	52·2	41·9	47·1	46·8	37·9	42·4	42·4	34·0	38·2	51·8	41·2	46·5	Alnwick Castle.
64·3	51·9	58·1	64·0	51·8	57·9	60·4	48·3	54·4	53·4	42 2	47·8	48·0	38·4	43·2	43·6	34·3	39·0	52·7	41·6	47·2	Shields.
68·5	50·4	59·5	67·0	50·1	58·6	61·9	46·5	54·2	53·6	40·4	47·0	47·0	36·3	41·7	42·2	32·5	37·4	54·0	39·7	46·9	Durham.
65·7	52·9	59·3	64·7	52·8	58·8	60·7	49·6	55·2	53·3	43·7	48·5	47·8	39·4	43·6	43·1	34·9	39·0	52·9	42·5	47·7	Scarborough.
68·9	52·0	60·5	68·0	51·5	59·8	63·3	47·6	55·5	54·6	41·1	47·9	48·0	37·1	42·6	43·0	32·9	37·9	55·1	40·8	48·0	York.
65·1	55·0	60·1	64·7	55·0	59·8	60·9	52·4	56·7	53·6	45·6	49·6	47·5	40·7	44·1	43·1	35·8	39·5	52·3	44·0	48·2	*Spurn Head.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Fulbeck.
71·0	51·5	61·3	70·1	51·2	60·6	64·9	47·4	56·2	55·8	41·3	48·6	48·0	36·9	42·5	42·4	32·4	37·4	55·8	40·5	48·2	Hillington.
66·3	54·9	60·6	66·3	54·8	60·6	62·4	51·3	56·9	54·5	44·6	49·6	48·0	39·5	43·8	42·7	34·2	38·4	53·0	43·2	48 1	Yarmouth.
69·9	52·3	61·1	69·5	51·9	60·7	65·0	48·7	56·9	56·4	42·4	49·4	49·2	38·1	43·7	43·7	33·3	38·5	55·7	41·4	48·6	*Geldeston.
72·2	52·2	62·2	71·4	51·9	61·7	66·3	48·0	57·1	56·7	40·9	48·8	49·2	36·2	42·7	43·8	32·1	37·9	57·3	40·5	48·9	Cambridge
70·2	51·7	61·0	69·2	51·5	60·4	64·1	47·5	55·8	54·9	41·1	48·0	48·1	36·6	42·4	43·0	32·9	38·0	55·4	40·6	48·0	Rothamsted.
70·4	51·1	60·8	69·2	50·8	60·0	64·2	46·7	55·5	54·7	40·3	47·5	48·1	36·6	42·3	42·9	32·4	37·7	55·7	40·3	48·0	*Bawtry.
66·0	51·2	58·6	65·5	50·6	58·1	61·0	47·3	54·2	52·7	40·8	46·8	46·4	36·7	41·6	41·5	32·6	37·1	53·1	40·4	46·8	Cheadle.
71·4	52·6	62·0	70·4	52·0	61·2	65·5	47·5	56·5	55·8	40·8	48·3	48·6	37·0	42·8	43·5	32·8	38·2	56·6	40·9	48·8	Loughborough.
71·6	52·1	61·9	70·9	51·6	61·3	65·6	47·1	56·4	55·9	41·0	48·5	48·5	36·6	42·6	42·9	31·8	37·4	56·6	40·2	48·4	*Colly Weston.
67·5	49·9	58·7	67·1	49·8	58·5	62·4	46·1	54·3	53·8	40·3	47·1	47·7	36·6	42·2	43·6	33·1	38·4	54·5	39·9	47·2	*Churchstoke.
67·6	52·7	60·2	67·0	52·6	59·8	61·9	49·2	55·6	53·4	42·7	48·1	47·4	38·2	42·8	42·9	34·4	38·7	54·0	42·0	48·0	*Birmingham.
70·4	51·7	61·1	69·9	51·3	60·6	64·6	47·3	56·0	55·4	41·1	48·3	49·0	37·7	43·4	44·2	33·4	38·8	56·4	41·1	48·8	*Hereford.
70·1	53·5	61·8	69·5	53·0	61·3	64·6	48·8	56·7	55·6	42·1	48·9	48·8	37·9	43·4	43·7	34·0	38·8	56·1	42·0	49·1	Oxford.
69·2	51·1	60·2	68·5	49·9	59·2	63·5	46·9	55·2	54·4	40·7	47·5	47·6	36·5	42·1	43·4	32·1	37·8	55·2	40·1	47·6	*Cirencester.
72·7	54·2	63·5	71·9	53·7	62·8	66·8	49·7	58·2	56·8	42·9	49·9	49·8	38·5	44·2	44·7	34·4	39·6	57·6	42·7	50·2	London.
68·7	51·3	60·0	68·1	51·1	59·6	63·6	47·3	55·5	54·9	41·0	48·0	48·4	36·9	42·7	43·3	32·8	38·1	55·1	40·5	47·8	*Swarraton.
67·0	56·1	61·6	67·5	56·6	62·1	64·0	53·0	58·5	56·6	46·2	51·4	50·1	41·1	45·6	45·2	36·3	40·8	54·8	44·7	49·8	Dungeness.
67·3	55·1	61·2	67·8	55·7	61·8	64·2	52·3	58·3	56·4	45·8	51·1	49·8	40·9	45·4	44·9	36·6	40·8	55·1	44·4	49·8	Hastings.
71·2	54·4	62·8	70·7	54·2	62·5	66·2	50·4	58·3	57·6	43·9	50·8	50·5	39·6	45·1	45·5	35·7	40·6	57·5	43·5	50·5	Southampton.
68·3	55·7	62·0	68·5	56·2	62·4	64·9	52·3	58·6	57·5	46·0	51·8	51·1	41·2	46·2	46·4	37·1	41·8	56·0	44·8	50·4	Hurst Castle.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Shaftesbury.
0·465			0·470			0·476			0·485			0·500			0·520			—			

mean temperature may be obtained,—according to the practice followed in the compilation of the tables of the Weekly Weather Report,—by adding to the average minimum reading for different months, and is represented by the factors entered at the foot of the columns of the several months.

TABLE II.—Showing the Average Rainfall and the Average Number of Rain-days for each Month and for the

derived from Observations extending

The averages entered in this Table are derived from daily observations extending over 35 years. At certain stations the actual observations do not cover the whole period, for any station, the name of the station is marked by an asterisk (*). In none of these cases is the period of actual observation less than 16 years. For eight stations, where

italics, and the duration of the

Districts.	Stations.	Rainfall and Rain-days,											
		January.		February.		March.		April.		May.		June.	
		Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
		Ins.		Ins.		Ins.		Ins.		Ins.		Ins.	
0. Scotland, N.	*Sumburgh Head	3·85	26	3·09	21	2·86	23	2·06	17	1·81	17	1·88	15
	Wick	2·26	20	2·06	17	2·05	20	1·65	16	1·83	17	1·74	14
	*Stornoway	4·87	25	3·84	21	3·48	23	2·51	18	2·43	18	2·42	16
	Lairg	3·61	18	2·98	15	3·17	17	2·39	14	2·18	14	2·28	13
	*Glencarron	9·94	22	6·92	19	6·77	22	4·54	18	4·62	19	4·92	18
	*Fort Augustus	4·77	20	3·91	16	3·14	19	2·08	16	2·07	16	2·20	15
	*Fort William	9·33	22	7·64	18	6·00	20	3·64	17	3·52	17	3·86	15
1. Scotland, E.	Nairn	2·03	17	1·60	14	1·72	17	1·31	15	1·66	15	1·77	14
	Aberdeen	2·36	18	2·20	17	2·28	19	2·05	17	2·02	16	1·85	14
	Braemar	3·03	18	2·75	15	2·45	17	2·23	15	2·23	16	2·35	15
	*Ochtertyre	4·78	19	3·53	15	2·72	15	2·27	14	2·36	13	2·86	13
	Leith	1·75	15	1·46	13	1·42	15	1·44	13	1·67	14	1·87	14
	Marchmont	2·61	17	2·34	16	2·44	17	2·24	16	2·33	16	2·50	15
2. England, N.E.	Alnwick Castle	2·22	18	2·14	15	2·36	16	2·07	16	2·06	13	1·96	12
	Shields	1·72	15	1·50	14	1·74	15	1·64	14	1·66	14	1·80	13
	Durham	1·94	17	1·56	15	2·00	16	1·90	16	1·97	15	1·94	14
	Scarborough	2·02	16	1·75	15	1·81	15	1·80	14	1·94	14	2·00	13
	York	1·81	17	1·68	15	1·63	16	1·68	15	1·85	14	2·18	13
	*Spurn Head	1·39	15	1·35	13	1·21	14	1·32	13	1·58	13	1·60	12
	Fulbeck	1·71	—	1·57	—	1·39	—	1·63	—	1·86	—	1·99	—
3. England, E.	Hillington	2·04	18	1·77	16	1·66	16	1·67	14	1·83	14	2·14	14
	Yarmouth	1·93	18	1·70	15	1·72	15	1·62	15	1·78	13	1·90	13
	Geldeston	1·63	17	1·49	15	1·57	15	1·50	14	1·72	13	1·71	12
	Cambridge	1·54	15	1·44	13	1·37	13	1·52	14	1·80	14	2·12	13
	Rothamsted	2·41	20	1·99	16	1·72	15	1·90	16	2·04	14	2·10	13
4. Midland Cos.	*Bawtry	1·82	15	1·57	14	1·53	13	1·61	13	1·94	13	2·17	12
	Cheadle	2·72	18	2·37	16	2·17	16	2·07	13	2·29	14	2·87	13
	*Loughborough	2·04	17	1·75	13	1·52	15	1·69	14	2·02	14	2·15	12
	Colly Weston	—	—	—	—	—	—	—	—	—	—	—	—
	*Churchstoke	2·78	16	2·42	15	1·95	14	1·82	14	2·19	15	2·16	14
	Birmingham (1871–1900)	2·11	15	1·76	14	1·55	13	1·87	14	2·29	12	2·57	13
	Hereford	2·46	16	2·04	13	1·61	14	1·66	14	2·07	13	2·03	13
	Oxford	2·08	17	1·80	14	1·47	13	1·61	14	1·75	13	2·10	12
	Cirencester	2·86	16	2·39	13	1·93	13	1·92	13	2·10	12	2·20	13
5. England, S.	London	2·01	16	1·69	14	1·49	13	1·65	13	1·69	12	1·93	12
	*Swarraton	3·08	16	2·63	13	2·08	13	1·89	12	1·96	11	1·98	12
	Dungeness	1·87	17	1·37	15	1·38	14	1·37	13	1·35	12	1·34	11
	Hastings	2·70	19	2·08	17	1·95	15	1·85	14	1·66	12	1·69	12
	Southampton	3·11	17	2·44	14	2·00	13	1·94	13	1·87	12	1·84	13
	Hurst Castle	2·75	17	2·18	14	1·83	13	1·69	13	1·62	12	1·81	13
	Shaftesbury	3·03	17	2·62	14	2·12	13	2·44	14	2·13	12	2·21	13

WHOLE YEAR, at CERTAIN of the STATIONS which furnish RETURNS for the WEEKLY WEATHER REPORTS and MONTHLY SUMMARIES, over the 35 Years 1866 to 1900.

and in these cases, wherever possible, the 35-year averages have been computed by comparison with neighbouring stations. If more than 4 years' observations are missing satisfactory means of comparison do not exist, the averages of actual observations for the shorter periods have been given. The names of these eight stations are printed in observations is given in brackets.

RAINFALL AND RAIN-DAYS.														
July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
Ins.		Ins.		Ins.		Ins.		Ins.		Ins.		Ins.		
2·33	17	3·25	18	3·48	20	4·43	24	4·12	24	4·46	26	37·62	248	*Sumburgh Head.
2·54	18	2·61	18	2·70	19	3·11	21	2·89	20	3·18	22	28·62	222	Wick.
2·97	21	3·66	21	4·17	21	5·31	24	5·28	23	5·68	26	46·62	257	*Stornoway.
3·00	16	2·82	17	3·11	16	3·88	19	3·56	18	4·03	18	37·01	195	Lairg.
6·07	23	6·71	21	7·70	20	8·85	23	9·60	22	10·18	24	86·82	251	*Glencarron.
3·12	19	3·28	18	4·03	19	4·18	19	4·36	22	5·36	22	42·50	221	*Fort Augustus.
5·16	21	5·94	19	7·20	19	7·62	21	7·80	21	9·95	23	77·66	233	*Fort William.
2·68	17	2·68	18	2·54	17	2·43	18	2·13	17	2·16	18	24·71	197	Nairn.
2·82	18	3·03	18	2·87	17	3·00	20	3·06	20	3·23	20	30·77	214	Aberdeen.
2·83	19	3·75	19	3·30	17	3·97	20	3·74	18	3·32	18	35·95	207	Braemar.
3·13	16	3·79	16	3·45	15	4·15	17	4·36	18	4·42	17	41·82	188	*Ochtertyre.
2·76	16	2·72	16	2·19	15	2·09	16	2·07	16	1·95	15	23·39	178	Leith.
3·41	17	3·50	17	3·10	17	3·55	20	3·36	20	3·09	19	34·47	207	Marchmont
2·81	15	3·10	15	2·70	16	3·34	18	3·22	19	3·07	17	31·05	190	Alnwick Castle.
2·55	15	2·83	16	2·20	14	2·75	17	2·33	17	2·34	16	25·06	180	Shields.
2·85	15	2·79	16	2·19	15	3·16	18	2·66	18	2·65	17	27·61	192	Durham.
2·66	15	2·74	16	2·49	14	3·25	18	2·82	19	2·67	18	27·95	187	Scarborough.
2·58	15	2·64	16	2·39	14	2·74	17	2·19	18	2·25	17	25·62	187	York.
1·70	13	1·87	15	1·80	14	2·34	16	2·19	17	2·07	17	20·42	172	*Spurn Head.
2·29	—	2·48	—	2·09	—	2·48	—	1·99	—	2·01	—	23·49	—	Fulbeck.
2·84	15	2·80	14	2·57	14	2·82	18	2·63	19	2·48	20	27·25	192	Hillington.
2·69	15	2·26	14	2·57	15	2·98	18	2·78	19	2·47	17	26·40	187	Yarmouth.
2·52	14	2·01	14	2·37	14	2·71	18	2·55	19	2·17	18	23·95	183	Geldeston.
2·38	14	2·34	14	2·10	13	2·34	15	1·99	15	1·82	16	22·76	169	Cambridge.
2·57	15	2·54	16	2·57	15	3·06	19	2·69	19	2·50	19	28·09	197	Rothamsted.
2·60	15	2·37	15	2·18	13	2·76	16	2·03	17	2·19	15	24·77	171	*Bawtry.
3·00	16	3·50	17	3·08	15	3·39	18	2·97	18	3·21	17	33·64	191	Cheadle.
2·24	15	2·46	14	2·44	14	2·76	17	2·14	17	2·35	15	25·56	177	*Loughborough.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	Colly Weston
2·37	15	2·67	16	2·64	16	3·49	18	3·24	17	3·25	17	30·98	187	*Churchstoke
2·65	14	2·81	17	2·51	13	2·88	16	2·44	16	2·25	15	27·69	172	*Birmingham.*
2·24	13	2·42	14	2·52	13	2·82	17	2·48	16	2·50	17	26·85	175	Hereford.
2·49	14	2·38	13	2·39	13	2·76	15	2·30	15	2·16	16	25·29	169	Oxford.
2·80	14	3·11	15	2·91	13	3·20	16	2·94	16	2·88	15	31·24	169	Cirencester.
2·27	13	2·30	13	2·21	13	2·70	16	2·29	16	2·15	15	24·38	166	London.
2·55	13	2·81	14	2·86	14	3·47	16	3·10	15	3·11	16	31·52	165	*Swarraton.
1·62	12	1·81	13	2·53	14	3·23	16	2·57	17	2·11	17	22·55	171	Dungeness.
2·19	13	2·41	14	2·74	14	3·74	18	3·26	19	2·95	17	29·22	184	Hastings.
2·55	14	2·65	14	2·82	14	3·44	16	3·09	16	3·19	17	30·94	173	Southampton.
2·17	14	2·35	14	2·76	14	3·49	18	3·11	17	2·85	17	28·61	176	Hurst Castle.
2·87	15	2·82	15	3·29	14	3·71	16	3·49	17	3·26	17	33·99	177	Shaftesbury.

TABLE II. (*continued*).—SHOWING the AVERAGE RAINFALL and the AVERAGE NUMBER of RAIN-DAYS for EACH MONTH and for the derived from Observations extending

The averages entered in this Table are derived from daily observations extending over 35 years. At certain stations the actual observations do not cover the whole period, for any station, the name of the station is marked by an asterisk (*). In none of these cases is the period of actual observation less than 16 years. For eight stations, where italics, and the duration of the

DISTRICTS.	STATIONS.	RAINFALL AND RAIN-DAYS.											
		January.		February.		March.		April.		May.		June.	
		Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
		Ins.		Ins.		Ins.		Ins.		Ins.		Ins.	
6. SCOTLAND, W.	*Laudale (1876–1900)*	8·18	23	6·57	19	6·06	21	3·76	15	3·70	17	4·08	17
	Glasgow	3·85	19	3·20	16	2·42	16	2·12	14	2·44	15	2·84	15
	Ardrossan	3·81	20	2·81	17	2·32	17	2·09	14	2·28	15	2·46	14
	*Glenlee	7·05	20	4·85	16	3·97	17	2·93	16	3·00	16	3·20	16
	Cally	4·68	18	3·98	14	3·39	15	2·62	12	2·93	12	3·21	13
	Douglas	4·29	19	3·30	16	2·73	16	2·38	15	2·22	14	2·31	13
7. ENGLAND, N.W.	Stonyhurst	4·14	19	3·43	17	3·40	17	2·45	15	2·68	15	3·22	15
	Blackpool	2·87	17	2·27	16	2·13	14	1·74	13	2·03	13	2·16	13
	Prestwich	3·21	18	2·30	15	2·42	16	2·03	14	2·38	15	2·94	14
	Liverpool	2·20	17	1·71	15	1·67	15	1·57	14	1·86	14	2·07	14
	Llandudno	2·73	17	2·12	15	1·96	14	1·81	13	1·85	12	1·91	13
	Holyhead	3·23	19	2·47	16	2·22	16	1·92	14	1·84	13	1·99	14
8. ENGLAND, S.W.	Llandovery	5·03	21	3·86	17	3·51	18	2·70	16	2·70	16	2·84	16
	*Pembroke	3·71	20	2·68	17	2·24	17	1·93	15	1·96	14	1·93	14
	Clifton	3·32	17	2·65	14	2·24	13	2·14	13	2·26	12	2·17	12
	Arlington (1876–1900)	4·46	19	4·10	17	3·44	17	2·91	14	2·81	15	3·05	15
	Cullompton	3·35	19	2·88	16	2·37	15	2·38	14	2·13	12	2·20	12
	Plymouth	3·84	19	2·94	15	2·51	14	2·32	14	2·02	12	2·02	13
	*Prawle Point	2·80	18	2·02	17	1·94	16	1·90	14	1·47	11	1·57	12
	*Falmouth	5·11	21	3·86	18	3·19	17	2·85	16	2·48	13	2·43	14
9. IRELAND, N	*Malin Head (1886–1900)*	2·44	22	2·06	17	2·06	19	1·80	17	2·14	16	2·21	15
	Londonderry	3·83	23	2·87	20	2·82	20	2·34	17	2·46	18	2·70	17
	*Donaghadee	2·80	20	2·33	17	1·96	18	1·94	15	2·19	15	2·18	15
	Edenfel	3·43	21	2·53	18	2·45	20	2·27	17	2·39	17	2·81	17
	Armagh	2·70	19	2·21	16	2·05	17	2·10	16	2·12	16	2·34	16
	Markree Castle (1871–1900)	3·74	22	2·87	20	2·85	20	2·34	18	2·52	19	3·15	17
	Blacksod (Belmullet) (1876–1900).	4·75	26	3·54	20	3·47	23	2·81	19	2·81	18	2·69	17
0. IRELAND, S.	Dublin (City)	2·23	18	1·99	16	1·95	16	1·95	15	2·02	15	1·92	15
	Birr Castle	2·91	20	2·12	16	2·23	16	2·14	15	2·27	15	2·43	15
	Kilkenny	3·37	19	2·59	17	2·07	15	2·21	16	2·11	15	2·35	14
	Foynes (1881–1900)	3·54	19	3·05	17	2·52	15	2·47	15	2·32	14	2·51	15
	Killarney (1881–1900)	6·29	21	5·30	19	4·11	17	3·37	16	3·04	15	2·85	15
	Valencia	6·10	24	4·94	21	3·92	20	3·78	18	3·02	16	3·38	17
	Roche's Point	5·14	20	4·09	17	3·26	14	3·10	15	2·93	13	3·02	13
CHANNEL ISLDS.	*Scilly	3·59	21	2·65	18	2·26	18	2·12	16	1·67	13	1·76	14
	Jersey	3·16	19	2·42	17	2·26	16	2·01	14	1·89	12	1·90	12

WHOLE YEAR, at CERTAIN of the STATIONS which furnish returns for the WEEKLY WEATHER REPORTS and MONTHLY SUMMARIES, over the 35 Years 1866 to 1900.

and in these cases, wherever possible, the 35-year averages have been computed by comparison with neighbouring stations. If more than 4 years' observations are missing satisfactory means of comparison do not exist, the averages of actual observation for the shorter periods have been given. The names of these eight stations are printed in observations is given in brackets.

RAINFALL AND RAIN-DAYS.														
July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
Ins.		Ins.		Ins.		Ins.		Ins.		Ins.		Ins.		
5·18	22	5·58	22	7·07	20	7·30	21	8·26	21	9·58	24	75·32	242	*Laudale.*
3·34	18	3·99	18	3·77	18	3·78	17	3·79	18	4·23	20	39·77	204	Glasgow.
2·80	17	3·87	17	3·41	17	3·78	16	3·78	19	3·81	21	37·22	204	Ardrossan.
4·03	18	4·77	20	4·82	18	5·63	20	6·29	21	6·72	21	57·26	219	*Glenlee.
3·84	15	4·64	16	4·46	16	4·83	16	5·32	17	5·35	18	49·25	182	Cally.
2·97	14	3·89	16	3·64	16	4·48	20	4·58	18	4·76	20	41·55	197	Douglas.
4·17	18	5·17	19	4·91	18	5·05	18	4·44	18	4·83	20	47·89	209	Stonyhurst.
2·96	14	3·44	16	3·57	15	4·17	18	3·40	18	3·22	19	33·96	186	Blackpool.
3·57	17	3·78	18	3·85	17	4·08	18	3·41	18	3·78	19	37·75	199	Prestwich.
2·77	16	2·96	17	3·12	16	3·52	18	2·71	17	2·64	18	28·80	191	Liverpool.
2·50	14	2·84	16	2·99	16	4·00	18	3·34	17	3·14	17	31·19	182	Llandudno.
2·46	16	3·02	16	3·04	16	4·33	20	3·96	20	3·94	20	34·42	200	Holyhead.
3·85	20	4·78	20	4·40	18	5·59	22	4·94	22	5·59	22	49·79	228	Llandovery.
2·42	14	2·91	16	3·24	16	4·14	20	3·94	20	4·17	21	35·27	204	*Pembroke
2·97	14	3·45	15	3·33	14	3·83	15	3·32	16	3·37	16	35·05	171	Clifton.
4·33	18	5·03	19	4·84	18	6·23	21	5·82	21	6·24	21	53·26	215	*Arlington.*
2·90	15	2·89	17	3·16	15	3·91	19	3·58	18	3·76	19	35·51	191	Cullompton.
2·71	15	2·93	15	3·35	15	3·80	18	3·62	18	4·20	20	36·26	188	Plymouth.
2·17	14	2·22	15	2·41	15	3·67	18	3·26	18	3·88	18	29·31	186	*Prawle Point.
3·00	16	3·55	17	4·14	17	5·25	20	5·25	20	5·63	22	46·74	211	*Falmouth.
2·87	19	3·25	21	3·11	19	2·99	21	3·08	20	3·36	24	31·37	230	*Malin Head.*
3·40	21	3·87	22	3·64	19	4·22	23	4·05	20	4·12	23	40·32	243	Londonderry.
2·83	18	3·30	19	2·80	17	3·14	18	3·12	19	2·96	21	31·55	212	*Donaghadee.
3·34	20	3·89	20	3·47	19	3·79	20	3·61	21	3·82	21	37·80	231	Edenfel.
3·14	19	3·26	19	2·84	18	2·98	18	2·83	19	2·92	19	31·49	212	Armagh.
3·58	22	4·15	24	3·83	21	4·30	21	4·00	21	4·31	23	41·64	248	*Markree Castle.*
2·94	21	4·98	22	3·99	21	5·20	23	5·22	24	6·12	27	48·52	261	*Blacksod (Belmullet).*
2·56	18	3·04	17	2·22	15	2·94	18	2·56	17	2·39	18	27·77	198	Dublin (City).
2·95	17	3·87	18	2·92	17	3·06	18	2·97	19	3·17	20	33·04	206	Birr Castle.
2·58	15	3·50	15	2·72	14	3·13	18	2·94	19	3·36	18	32·84	195	Kilkenny.
3·11	19	4·20	19	3·01	17	3·81	19	4·19	19	4·65	20	39·38	208	*Foynes.*
3·52	18	4·78	19	3·85	18	5·66	21	6·29	22	7·41	22	56·47	223	*Killarney.*
3·95	20	4·96	22	4·34	19	5·61	22	5·67	22	6·34	25	56·01	246	Valencia.
3·00	15	3·94	16	3·62	14	4·21	16	4·65	19	5·47	20	46·43	192	Roche's Point.
2·29	16	2·49	17	3·15	17	3·73	21	3·65	21	4·19	22	33·55	214	*Scilly.
2·30	13	2·48	14	3·04	15	4·47	19	4·07	19	3·88	20	33·88	190	Jersey

TABLE III.—SHOWING the AVERAGE NUMBER of HOURS of BRIGHT SUNSHINE for each MONTH and for the WHOLE YEAR, together with WEATHER REPORTS and MONTHLY SUMMARIES, derived

The averages entered in this Table are derived from daily observations extending over 20 years. At certain stations the actual observations do not cover the whole station the name of the station is marked by an asterisk (*).

DISTRICTS,	STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annuals.	
		Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
0. SCOTLAND, N.	*Deerness	27·5	13	56·3	22	108·3	30	149·1	35	180·0	35	150·8	28	142·6	26	118·5	25	106·5	28	80·7	26	36·9	16	25·6	14	1182·8	27
	Stornoway	29·7	14	62·8	24	103·9	29	156·7	37	189·7	37	183·7	34	140·8	26	131·3	28	107·4	28	87·0	28	40·6	18	23·9	12	1257·5	28
	*Strathpeffer	33·0	15	62·9	24	88·9	25	142·7	33	174·4	34	162·9	31	127·6	24	121·5	26	115·9	31	93·0	30	40·6	18	30·6	16	1194·0	27
	*Fort Augustus	16·2	7	41·7	16	77·1	21	115·6	27	134·6	27	130·4	25	95·3	18	89·0	19	78·9	21	61·0	19	19·0	8	8·5	4	867·3	20
	*Fort William	25·0	11	53·2	20	96·0	27	137·8	33	177·3	35	175·5	33	128·8	25	100·9	22	95·5	25	76·7	24	27·2	12	11·5	6	1105·4	25
1. SCOTLAND, E.	Aberdeen	52·1	23	75·2	29	121·0	33	153·3	36	191·0	38	187·9	36	165·9	32	153·3	33	124·0	33	98·9	31	52·7	22	38·2	19	1413·5	32
	*Braemar	23·5	10	68·8	26	112·7	31	134·0	32	182·5	36	176·6	34	146·0	28	122·5	26	110·7	29	74·1	24	30·3	13	20·0	10	1201·7	27
	*Edinburgh	32·3	14	58·1	22	96·0	26	123·4	29	168·3	34	148·6	29	144·5	28	144·6	31	103·5	28	81·1	26	44·6	19	21·9	10	1166·9	26
	*Marchmont	41·0	18	69·1	26	105·3	29	141·2	34	184·6	37	178·0	34	172·0	33	154·4	34	114·1	30	85·4	27	51·1	21	32·1	15	1328·3	30
2. ENGLAND, N.E.	Durham	45·5	19	67·3	25	113·4	31	127·3	30	172·5	35	167·7	33	166·8	33	147·1	32	116·5	31	89·1	28	50·9	21	42·4	20	1306·5	30
	*Oswaldkirk	38·7	16	61·5	23	115·1	32	135·4	32	174·3	35	163·3	32	161·0	32	137·3	30	115·9	31	85·6	27	45·0	18	33·7	15	1266·8	29
	York	30·2	12	58·9	22	106·5	29	134·2	32	183·3	37	171·6	34	174·8	35	148·2	33	118·2	32	85·9	27	37·6	15	24·9	11	1274·3	29
3. ENGLAND, E.	Hillington	45·4	18	72·7	27	116·7	32	153·7	37	209·2	43	195·2	39	198·1	40	178·4	40	135·0	36	98·4	31	54·0	21	41·1	18	1497·9	34
	Geldeston	52·1	21	74·9	27	129·9	36	161·2	39	221·8	46	210·4	43	210·6	43	191·1	43	155·5	42	113·1	35	62·2	24	48·9	21	1631·7	37
	Cambridge	48·9	19	73·8	27	125·3	34	157·6	38	203·1	42	197·4	40	203·2	41	187·1	42	147·7	39	107·2	33	61·0	24	40·6	17	1552·9	35
	*Rothamsted	45·5	18	68·6	25	119·9	33	148·1	36	196·2	41	191·2	39	211·5	43	189·5	42	144·7	39	110·2	34	59·1	23	42·9	18	1527·4	35
4. MIDLAND COS.	Worksop	35·7	15	59·2	22	103·0	28	128·5	31	172·6	36	160·9	32	164·2	33	146·1	32	117·0	31	84·8	26	44·9	18	30·5	13	1247·4	28
	Thurcaston	39·6	16	61·8	23	102·0	28	134·8	32	183·6	38	174·2	35	177·6	36	163·8	36	124·0	33	89·1	28	49·8	20	31·2	14	1331·5	30
	Churchstoke	46·9	19	69·8	26	117·6	32	147·9	36	194·5	40	192·7	39	187·2	37	168·3	37	136·6	37	94·1	29	49·8	20	39·6	17	1445·0	33
	Oxford	46·4	18	68·1	25	116·8	32	149·9	36	196·3	41	194·9	40	200·7	41	185·7	42	144·2	39	102·7	32	56·4	22	41·6	18	1503·7	34
	Cirencester	48·1	19	74·3	27	118·8	33	155·7	38	204·7	42	197·6	40	197·1	40	182·8	41	135·5	36	102·3	32	55·1	21	40·2	17	1512·2	34
5. ENGLAND, S.	London	25·4	10	40·2	15	85·2	23	126·9	31	182·5	38	179·9	36	186·5	38	172·6	39	126·2	34	78·9	24	35·3	14	20·6	9	1260·2	29
	*Margate	45·3	18	71·3	26	125·4	34	154·2	38	195·2	41	184·1	38	200·9	41	188·8	43	146·8	39	108·8	33	60·2	23	47·1	20	1528·1	35
	Hastings	58·7	23	83·6	30	140·5	39	173·5	42	235·3	49	227·8	47	232·8	48	211·7	48	167·7	45	122·7	38	68·6	26	57·9	24	1780·8	40
	*Eastbourne	54·0	21	75·1	27	139·1	38	172·9	42	226·3	47	221·4	45	232·8	48	206·0	46	168·3	45	120·7	37	62·6	24	55·0	23	1734·2	39
	*Brighton	51·5	20	77·7	28	136·4	37	172·9	42	219·1	46	224·7	46	230·4	47	217·4	49	166·4	44	124·3	38	66·0	25	51·2	21	1738·0	39
	*Westbourne	55·2	21	79·7	29	143·0	39	180·7	44	225·9	47	213·9	44	224·5	46	208·4	47	163·8	44	116·5	36	59·2	23	50·9	21	1721·7	39
	Southampton	50·2	20	76·4	28	129·9	36	167·7	41	217·9	46	214·9	44	219·5	45	208·0	47	159·2	43	115·0	35	60·2	23	48·8	20	1667·7	38
	*Ventnor	56·4	22	81·5	29	148·8	41	184·6	45	228·1	48	195·7	40	214·3	44	207·1	47	174·4	47	125·9	39	64·1	24	48·7	20	1729·6	39

NOTE.—The Values for Westbourne are from a Jordan's Photographic Recorder.

with the PERCENTAGES of the POSSIBLE DURATION, in each instance, at certain of the STATIONS which furnish returns for the WEEKLY from Records extending over the 20 Years 1881–1900.

period, and in these cases the 20-year averages have been computed by comparison with neighbouring stations. If more than 4 years' observations are missing for any In no instance is the period of actual observation less than 9 years.

DISTRICTS.	STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annuals.	
		Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
6. SCOTLAND, W.	Glasgow	24·2	10	44·2	17	86·8	24	127·1	30	166·6	33	160·4	31	142·9	28	128·7	28	98·3	26	69·3	22	26·2	11	16·3	8	1091·0	25
	Douglas	49·8	21	69·8	26	134·0	37	179·1	43	226·6	46	219·1	43	198·6	39	171·4	38	143·1	38	103·8	32	60·3	24	40·2	18	1595·8	36
7. ENGLAND, N.W.	Stonyhurst	34·5	14	59·9	22	107·3	29	145·5	35	194·3	40	193·3	38	177·5	35	147·6	32	124·3	33	88·7	28	43·3	17	25·9	12	1342·1	30
	Blackpool	36·5	15	62·5	23	106·7	29	148·5	36	198·6	40	192·3	38	182·7	36	155·0	34	121·8	33	89·9	28	43·0	17	24·7	11	1362·2	31
	Llandudno	46·3	19	71·0	26	110·3	30	152·6	37	201·0	41	198·5	40	180·5	36	162·6	36	124·4	33	87·0	27	51·5	20	34·4	15	1420·1	32
8. ENGLAND, S.W.	Pembroke	54·1	22	77·6	28	135·2	37	179·6	44	223·9	46	233·6	47	205·3	42	193·8	43	148·3	40	104·9	32	60·9	24	44·0	19	1661·2	38
	*Tenby	58·7	23	81·9	30	144·5	40	186·4	45	223·4	46	234·9	48	206·6	42	194·6	44	152·4	41	108·7	34	61·5	24	46·3	20	1699·9	39
	Cullompton	44·2	17	69·3	25	126·1	35	154·9	38	200·3	42	201·8	41	187·4	38	184·3	42	144·0	39	97·7	30	52·8	20	38·7	16	1501·5	34
	*Torquay	57·7	22	73·0	26	143·3	39	176·3	43	223·4	47	237·8	49	219·1	45	210·6	48	161·7	43	110·6	34	61·7	23	52·5	22	1727·7	39
	*Newquay	53·7	20	80·3	29	139·0	38	174·5	43	219·3	46	226·6	47	213·9	44	207·6	47	155·2	42	114·4	35	74·0	28	50·0	21	1708·5	39
	Plymouth	50·6	19	77·6	28	136·0	37	172·1	42	217·8	46	217·1	45	208·0	43	197·3	45	154·6	41	108·4	33	61·7	23	51·0	21	1652·2	37
	Falmouth	56·8	22	83·2	30	140·9	39	181·3	44	233·7	49	234·2	48	226·6	47	213·4	48	160·4	43	118·9	36	70·5	27	56·2	23	1776·1	40
9. IRELAND, N.	Armagh	45·9	19	64·0	24	103·1	28	140·7	34	184·6	38	172·2	34	141·4	28	125·9	28	116·5	31	91·0	28	58·1	23	37·3	17	1280·7	29
	Markree	43·5	18	64·2	24	105·2	29	145·8	35	188·6	38	168·1	33	129·5	26	129·7	29	107·7	29	89·9	28	55·2	22	33·5	15	1260·7	29
10. IRELAND, S.	Dublin (Phœnix Park).	59·1	24	72·1	27	123·9	34	162·4	39	212·5	44	197·3	40	166·8	33	162·7	36	143·4	38	110·6	34	70·9	28	52·6	23	1534·3	35
	Birr Castle	52·0	21	68·0	25	110·8	30	151·1	36	185·0	38	170·2	34	139·2	28	139·5	31	129·2	35	99·9	31	63·8	25	44·7	20	1353·4	31
	Valencia	54·5	22	73·5	27	132·3	36	163·9	40	210·7	44	197·6	40	154·4	31	152·7	34	133·1	36	104·4	32	65·8	26	42·6	18	1485·5	34
CHANNEL ISLDS.	*Guernsey	52·0	19	90·5	32	151·3	42	194·8	48	260·1	56	253·6	53	252·8	53	244·7	56	177·6	48	117·7	36	60·9	22	45·0	18	1901·0	43
	Jersey	66·9	25	94·3	33	154·0	42	193·8	47	249·4	53	246·6	51	244·2	51	244·8	56	184·9	50	130·0	40	73·5	27	62·3	25	1944·7	44

NOTE.—The Values for Guernsey are from a Jordan's Photographic Recorder.